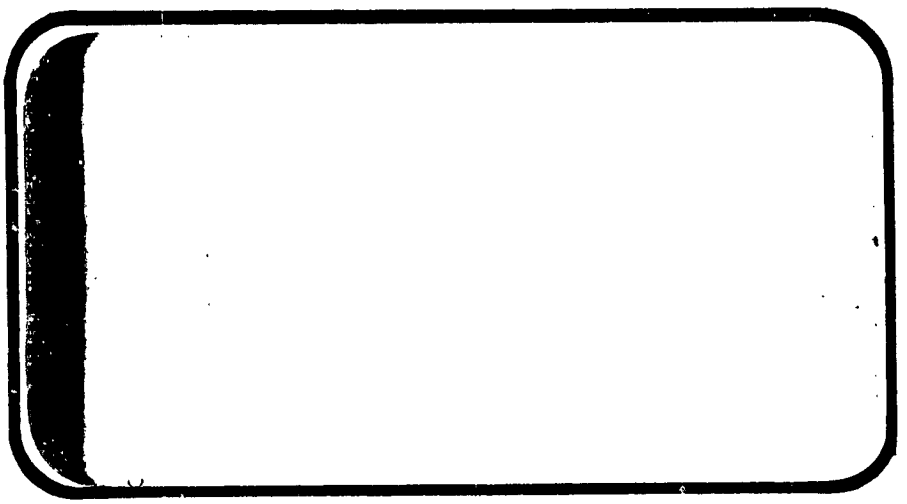
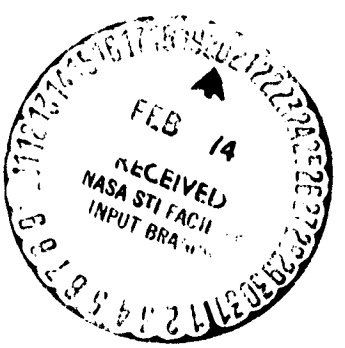
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



(NASA-CR-128794-Vol-10) RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN C.C3C-SCALE MODEL OF THE SPACE (Chrysler Corp.) 1159 p HC $59.00 CSCL 22B G3/31

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER CORPORATION

October, 1973

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VOLUME 10 OF 18

RESULTS OF TESTS 0A12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS

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Chrysler Corporation Space Division Assumes no responsibility for the data presented herein other than its display characteristics.

RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS

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ABSTRACT

Tests were conducted in the NASA/ARC Unitary Plan Wind Tunnels during April and May 1973, on an 0.030-scale replica of the Space Shuttle Vehicle Configuration 2A. Aerodynamic loads data were obtained at Mach numbers from 0.6 to 3.5.

The investigation included Tests IA9A, B and C on the integrated (launch) configuration and Tests OA12A and C on the isolated orbiter (entry configuration). The integrated vehicle was tested at angles of attack and sideslip from -8 degrees to +8 degrees. The isolated orbiter was tested at angles of attack from -15 degrees to +40 degrees and angles of sideslip from -10 degrees to +10 degrees as dictated by trajectory considerations. The effects of orbiter/external tank incidence angle and deflected control surfaces on aerodynamic loads were also investigated.

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INTRODUCTION

The 0.030-scale Aero Loads Space Shuttle model was tested in the Unitary Plan Wind Tunnels at ARC starting April 2, and continuing through May 17, 1973 as follows:

IA9A	11-foot Transonic	April 2 to April 14, 1973
OA12A	11-foot Transonic	April 16 to April 29, 1973
IA9C	8x7-foot Supersonic	April 23 to May 1, 1973
OA12C	8x7-foot Supersonic	May 2 to May 8, 1973
IA9B	9x7-foot Supersonic	May 9 to May 17, 1973

The testing was conducted in all three legs of the Unitary Plan Wind Tunnels to obtain a Mach number range from 0.6 to 3.5. Aerodynamic loads data were obtained for the ascent and entry configurations. The effects of control surface deflections were also investigated.

This report consists of 3 volumes of force data and 15 volumes of pressure data for a total of 18 volumes arranged in the following manner:

VOLUME NO.	CONTENTS
1	IA9A force data
2	IA9B and IA9C force data
3	OA12A and OA12C force data
4	IA9A plotted pressure data
5	IA9B and IA9C plotted pressure data
6	OA12A and OA12C plotted pressure data
7	IA9A tabulated pressure data (a) orbiter fuselage (b) orbiter base (c) upper MPS nozzle
8	IA9A tabulated pressure data (a) OMS nozzle (b) body flap (c) OMS pod outside (d) lower wing surface
9	IA9A tabulated pressure data (a) upper wing surface (b) left vertical tail surface (c) right vertical tail surface (d) APU inlet (e) SRM booster base
10	IA9A tabulated pressure data (a) SRM booster (b) external tank (c) external tank base

11 IA9B tabulated pressure data
- (a) orbiter fuselage
- (b) orbiter base
- (c) upper MPS nozzle
- (d) OMS nozzle
- (e) body flap
- (f) OMS pod outside
- (g) lower wing surface

12 IA9B tabulated pressure data
- (a) upper wing surface
- (b) left vertical tail surface
- (c) right vertical tail surface
- (d) APU inlet
- (e) SRM booster base
- (f) SRM booster
- (g) external tank
- (h) external tank base

13 IA9C tabulated pressure data
- (a) orbiter fuselage
- (b) orbiter base
- (c) upper MPS nozzle
- (d) OMS nozzle
- (e) body flap
- (f) OMS pod outside

14 IA9C tabulated pressure data
- (a) lower wing surface
- (b) upper wing surface
- (c) left vertical tail surface
- (d) right vertical tail surface

15 IA9C tabulated pressure data
- (a) APU inlet
- (b) SRM booster base
- (c) SRM booster
- (d) external tank
- (e) external tank base

16 OA12A tabulated pressure data
- (a) orbiter fuselage
- (b) orbiter base
- (c) upper MPS nozzle
- (d) OMS nozzle
- (e) body flap
- (f) OMS pod outside

17 OA12A tabulated pressure data
- (a) lower wing surface
- (b) upper wing surface
- (c) left vertical tail surfac
- (d) right vertical tail surface
- (e) APU inlet

18 OA12C tabulated pressure data
All components

NOMENCLATURE
General

SYMBOL	SADSAC SYMBOL	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$
		Reference & C.G. Definitions
A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
		Stability-Axis System
C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (CONTINUED)

ADDITIONS TO STANDARD LIST

SYMBOL	PLOT SYMBOL	DEFINITION
δ_R	RUDDER	rudder, surface deflection angle, positive deflection, trailing edge to the left; degrees.
δ_e	ELEVON	elevon, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_{RF}	RUDFLR	rudder flare, split rudder deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{RF} = (\delta_{RL} + \delta_{RR})/2$, positive deflection; degrees.
i_o	ORBINC	incidence angle between the orbiter and external tank, $i_o = \alpha_t - \alpha_t$; degrees.
β_T	BETAT	angle of sideslip of external tank.
α_T	ALPHAT	angle of attack of external tank.
ℓ_B	LB	length of orbiter body; in.
ℓ_T	LT	length of external tank; in.
ℓ_s	LS	length of SRM booster; in.
ℓ_{NM}	LNM	length of OMS nozzle, positive direction forward of exit plane; in.
ℓ_{NP}	LNP	length of MPS nozzle, positive direction forward of exit plane; in.
b/2	BW	wing semi-span; in.
b_v	BV	vertical tail span; in.
x	X	distance from component nose; in.
y	Y	lateral distance from centerline; in.

NOMENCLATURE (CONCLUDED)

SYMBOL	PLOT SYMBOL	DEFINITION
z	Z	vertical distance measured from W.L. 500 (vertical tail reference root chord); in.
c_w	CW	local wing chord; in.
c_v	CV	local vertical tail chord; in.
x/ℓ_B	X/LB	longitudinal position/orbiter body length.
x/ℓ_T	X/LT	longitudinal position/external tank length.
x/ℓ_S	X/LS	longitudinal position/booster length.
x/ℓ_{NM}	X/LNM	longitudinal position/OMS nozzle length.
x/ℓ_{NP}	X/LNP	longitudinal position/MPS nozzle length.
x/c_w	X/CW	local chordwise position/local wing chord length.
x/c_v	X/CV	local chordwise position/local vertical tail chord length.
y/b/2	Y/BW	local spanwise position/wing semi-span.
z/b_v	Z/BV	local spanwise position/vertical tail span.

CONFIGURATIONS INVESTIGATED

The 0.030-scale aero loads model was a replica of the Space Shuttle Vehicle 2A. It consisted of four major components: the orbiter, the external oxygen and hydrogen tank (ET) and two solid rocket boosters (SRB).

On the ascent configuration, the orbiter was strut mounted from the ET on a Task Corporation MK XVI 2.5-inch diameter internal balance. The left SRB was strut mounted from the ET on a Task Corporation MK XXII 1.5-inch diameter internal balance. No attempt was made to simulate actual inter-attachments. The ET was sting mounted to the tunnel model support system on a Task Corporation 4.0-inch diameter internal balance. The right SRB was strut mounted symetrically to the left side, but did not contain a balance. The orbiter configuration, designated as O_{2A}, consisted of $B_{10}C_5D_7W_{87}V_5R_5M_3F_4$.

The entry configuration consisted of the isolated orbiter, sting mounted to the tunnel model support system on a Task Corporation MK XXA 2.5-inch diameter internal balance. Midway through the OA12C test, the MK XXA balance was damaged and was replaced by the MK XXB for the high angles of attack. The orbiter was provided with deflectable elevons by means of interchangeable brackets, deflectable rudder by means of a pin-indexed hinge, and interchangeable rudders to obtain different speed brake flare angles. The main propulsion system engines were removed during entry configuration testing to provide sting clearance. A cover plate was provided for the strut clearance hole.

The orbiter was instrumented with 374 pressure orifices on the left wing, left side of the fuselage, vertical tail, left OMS pod and engine, left and upper MPS engine and the base. The pressures were measured using eleven Scanivalve, Inc., S-type valve modules mounted internally (a five and a six gang unit). When tested in the entry configuration, the MPS pressures were not available for measurement.

The left side of the ET was instrumented with 136 pressure orifices. These pressures were measured by means of 7 Scanivalve, Inc., S-type valve modules configured as one unit of 6 modules and one single. These valves were mounted internally in the tank. The left SRB had one gang of six S-type modules to measure 102 pressures. The right SRB was not instrumented. The pressure transducers used in the valve modules were Statham PM 131 TC differential pressure transducers, with ranges of ± 10 psid, ± 12.5 psid and ± 15 psid. Reference and calibration pressures were measured by the ARC micro manometers.

Some modifications were made to the model at the test site prior to

testing. These were as follows:

1. The forward tip of the ET containing the retro rocket package (Reference NR Drawing VL78-000018) was replaced with a flush 0.90 inch radius nose (Model scale). The new nose had five pressure taps; one in the nose and four more aft of the nose on the vertical and horizontal axis on a 0.315 inch radius.

2. The ET balance cavity was enlarged by one inch on the diameter (from 5 inches to 6 inches) to provide clearance for cable routing and eliminate balance interference.

3. The clearances around both the orbiter and the SRB struts were opened to approximately 1/8 inch to prevent interference.

4. An alternate rudder hinge pin was provided to give a rudder deflection of +15 degrees.

Before and during the tests various model discrepancies developed or were discovered. These were generally minor and had only a negligible, if any, effect on the data. Significant discrepancies are noted below:

1. Pressure orifices P171 and P173 on the OMS pod base were omitted.

2. During the test certain pressure taps developed leaks or became plugged. Data from these taps are questionable and should be used with caution. Difficulties in checking may have resulted in erroneous indications of leakage. Repairs were made to correct leaking or plugged pressure instrumentation, whenever possible, as the test progressed. The following list gives those taps that were indicated as bad on the various leak and response checks:

ARC Facility	Run Nos.	Orifice numbers with questionable pressure data
11'	2-4	72, 163, 427
↓	5-118	31, 100, 123, 163, 201, 427
	119-160	16, 98, 101, 107, 333, 427
	161-170	16, 98, 101, 107, 333, 427 + 306, 307, 327, 328, 336, 337, 356, 357, 375

CONFIGURATIONS INVESTIGATED (CONCLUDED)

ARC Facility	Run Nos.	Orifice numbers with questionable pressure data
11'	171-182	16, 47, 53, 75, 78, 98, 107, 201, 236, 237, 238, 307, 327, 365, 427
↓	183-189	Same as (171-182) + 7, 447, 525
	190-211	Same as (171-182)
8'x7'	220-234	20, 21, 24, 74, 326, 327, 336, 424, 427, 752, 868, 871
↓	235-285	74, 326, 327, 336, 424, 427, 752, 868, 871
	286-300	74, 107, 115, 124, 129, 138, 326, 327, 336, 427
	301-305	74, 326, 327, 336, 427
	306-333	74, 326, 327, 427
9'x7'	340-396	5, 325, 326, 327, 424, 427, 526, 752, 868, 871

TEST FACILITIES DESCRIPTION

Ames 11 x 11-Ft. Transonic

The Ames 11 x 11-Foot Transonic Wind Tunnel is a variable density, closed return, continuous flow type. This tunnel has an adjustable nozzle (two flexible walls) and a slotted test section to permit transonic testing over a Mach number range continuously variable from 0.4 to 1.4.

Ames 8 x 7-Ft. Supersonic

The Ames 8 x 7-Foot Supersonic Wind Tunnel is a closed-return, variable-density tunnel with a 8- by 7-foot rectangular test section. The nozzle has flexible side walls with fixed upper and lower surfaces. Mach number range is continuously variable from 2.45 to 3.5. Tunnel stagnation pressure can be varied from 0.3 to 2.0 atmospheres and Reynolds number per foot varies from 1.0×10^6 to 5.0×10^6.

Ames 9 x 7-Ft. Supersonic

The Ames 9 x 7-Foot Supersonic Wind Tunnel is a variable density, continuous flow type with an adjustable nozzle to permit supersonic testing over a Mach number range continuously variable from 1.5 to 2.5. The nozzle is of the asymmetric, sliding-block type in which the variation of the test section Mach number is achieved by translating, in the streamwise direction, the fixed-contour block that forms the floor of the nozzle.

DATA REDUCTION

Standard procedures were utilized to reduce force and pressure data to coefficient form. The following dimensional constants were applied:

Reference Dimensions and Constants (Model Scale)

$S_{Ref.} = 2.421\ ft^2$	Orbiter reference area
$\ell_{Ref.} = 39.849$ in.	Orbiter reference length

Base Areas (Model Scale)

$A_{BOI} = 0.1903\ Ft^2$	Orbiter base area, integrated
$A_{BOA} = 0.2362$	Orbiter base area, sting mounted
$A_{BMPSU} = 0.0417$	Orbiter upper MPS base area
$A_{BMPSL} = 0.0853$	Orbiter lower MPS base area
$A_{BACPS} = 0.0310$	Orbiter ACPS base area on OMS pod
$A_{BOMS} = 0.0231$	Orbiter OMS nozzle base area
$A_{BPOD} = 0.0257$	Orbiter OMS pod base area
$A_{CO} = 0.0611$	Orbiter sting cavity base area
$A_{BNOZ} = 0.0564$	SRM nozzle base area
$A_{BSKIRT} = 0.1729$	SRM nozzle skirt base area
$A_{BETI} = 0.3189$	ET Base area
$A_{CET} = 0.1964$	ET Sting cavity base area

TEST : OA12 / IA9 | TABLE I. | DATE : May, 1973

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.6	4.0×10^6	540	120° NOM.
0.9	4.5	800	
1.1	4.0	800	
1.25	3.0	630	
1.4	3.0	650	
1.55	2.8	600	
2.0	2.3	490	
2.5	1.5	300	
3.0	2.0	350	
3.5	2.0	300	

BALANCE UTILIZED: FIVE (5) TASK CORPORATION BALANCES WITH CAPACITIES AS FOLLOWS:

	ISOLATED ORBITER MK XX A	ISOLATED ORBITER MK XX B	INTEGRATED VEHICLE ORB MK XX	INTEGRATED VEHICLE SRB MK XX	INTEGRATED VEHICLE ET MK II B
N_F	3000	3000	2400	1250	4000
N_A	3000	3000	2400	1250	4000
Y_F	1500	1500	1200	500	2000
Y_A	1500	1500	1200	500	2000
X	600	600	1000	200	1000
R	4000	4000	4000	1000	10,000
SIZE	2.5"	2.5"	2.5"	1.5"	4.0"

COMMENTS: THE MARK XX A, 2.5IN DIA. BALANCE WAS DAMAGED AFTER RUN 319. THE MARK XX B WAS SUBSTITUTED FOR RUN 320 AND SUBSEQUENT RUNS

TABLE II.

TEST: ARC 11-707(IA9A) — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: 4-[illegible]-[illegible]

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_e	δ_R	δ_{FR}	i_o	NO. OF RUNS	MACH 0.6	MACH 0.9	MACH 1.1	MACH 1.25	MACH 1.4	TEST RUN NUMBERS
REMx 01	$\phi_{2A} + S_3 + T_9$	A	0	0	0	0	1.5	4	3	5	6	7		
02	〃	A	0	〃	〃	〃	0.5	5	8	18	28	38	48	
03		-8	B				〃	4	9	19	29	39		
04		-6	〃					〃	10	20	30	40		
05		-4							11	21	31	41		
06		-2						↓	12	22	32	42		
07		0						5	13	23	33	43	49	
08		2						4	14	24	34	44		
09		4						〃	15	25	35	45		
10		6			↓				16	26	36	46		
11		8	↓					↓	17	27	37	47		
12		-8	C		-5			2			97	102		
13		-6	〃		〃			〃			118	111		
14		-4									98	103		
15		-2									117	112		
16		0									99	104		
17		2									116	113		
18		4	↓	↓	↓	↓	↓	↓			100	105		

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES — COEFFICENTS

αA = -8, -6, -4, -2, 0, 2, 4, 6, 8

αB = -8, -6, -4, -2, 0, 2, 4, 6, 8

βC = -8, -4, 0, 4, 8

IDVAR (1) IDVAR (2) NDV

TABLE II. (CONTINUED)

TEST: ARC-H-707 (SA [illegible])

DATA SET RUN NUMBER COLLATION SUMMARY

DATE: [illegible]

DATA SET RUN NUMBER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δe	δR	δFR	i_o	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	1.1	1.25
23N19	ϕ_{2A} - S3 • T-	6	C	0	-5	0	0.5	2			115	114
20		C			-5						101	100
21		-8			-10						60	69
22		-6									61	70
23		-4									62	71
24		-2									63	72
25		0									64	73
26		2									65	74
27		4									66	75
28		6									67	76
29		8									68	77
30		-8			-15						78	88
31		-6									79	89
32		-4									80	90
33		-2									81	91
34		0									82	92
35		2									83	93
36		4									84	94

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE II. CONTINUED

TEST: ARC 11-707 (IA)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_e	δ_R	δ_{FR}	i_o	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	1.1	1.25	TEST RUN NUMBERS
RBMx 37	$\phi_{2A} + S_3 + T_9$	6	C	0	-15	0	0.5	2			85	95	
38		8			-15						87	96	
39		-8			-5						50	55	
40		-4									51	56	
41		0									52	57	
42		4									53	58	
43		8									54	59	
44		A	0	0			-1.2	4	107	108	109	110	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE II. CONTINUED

TEST: ARC 97-707(IA9B) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 5-17-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δe	PARAMETERS/VALUES δR	PARAMETERS/VALUES io	PARAMETERS/VALUES δRF	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 1.55	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.0	TEST RUN NUMBERS
RBØx 01	$\emptyset_{2A} + S_3 + T_9$	A	0	0	0	0.5	0	2	341	351	
02		8	B						342	360	
03		6							343	359	
04		4							344	358	
05		2							345	357	
06		0							346	356	
07		-2							347	355	
08		-4							348	354	
09		-6							349	353	
10		-8							350	352	
11		-8	C		-15				361	367	
12		-4							362	368	
13		0							363	369	
14		4							364	370	
15		6							365	371	
16		8							366	372	
17		-8			-10				373	379	
18		-4			-10				374	380	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES — COEFFICENTS: α(A) = -8, -6, -4, -2, 0, 2, 4, 6, 8; β(B) = 8, 6, 4, -4, -6, -8

IDVAR (1): β(C) = 8, 6, 4, 0, -4, -6, -8

IDVAR (2):

NDV:

TABLE II. CONTINUED

TEST: ARC 97-707(IA9B) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 5-17-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δe	PARAMETERS/VALUES δR	PARAMETERS/VALUES i_o	PARAMETERS/VALUES δ_{RF}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 1.55	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.0	TEST RUN NUMBERS
RBØx19	$Ø_{2A} + S_3 + T_9$	0	C	0	-10	0.5	0	2	375	381	
20		4							376	382	
21		6							377	383	
22		8							378	384	
23		-8			+15				385	391	
24		-4							386	392	
25		0							387	393	
26		4							388	394	
27		6							389	395	
28		8							390	396	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS — IDVAR (1) — IDVAR (2) — NDV

α OR β SCHEDULES

TABLE II. CONTINUED

TEST: ARC 8×7-707 (IA9C) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 5-1-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	i_o	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.0	3.5	TEST RUN NUMBERS
RBNx01	$\phi_{2A} + S_3 + T_9$	A	0	0	0	0	0.5	3	240	230	220	
02		-8	B						241	231	221	
03		-6							242	232	222	
04		-4							243	233	223	
05		-2							244	234	224	
06		0							245	235	225	
07		2							246	236	226	
08		4							247	237	227	
09		6							248	238	228	
10		8							249	239	229	
11		-8	C		-15				267	256	250	
12		-4							266	257	251	
13		0							265	258	252	
14		4							264	259	253	
15		6							263	260	254	
16		8							262	261	255	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES — COEFFICENTS: $\alpha A = -8,-6,-4,-2,0,2,4,6,8$; $\beta B = -8,-6,-4,-2,0,2,4,6,8$; $\beta C = -8,-6,-4,0,4,6,8$

IDVAR (1) IDVAR (2) NDV

TABLE II. CONTINUED

TEST: ARC 8×7-707 (IA9C) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 5-1-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	i_0	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.0	3.5	TEST RUN NUMBERS
RBNx 17	$\emptyset_{2A} + S_3 + T_9$	-8	C	0	-10	0	0.5	3	274	280*	268	
18		-4							275	281*	269	
19		0							276	282*	270	
20		4							277	283*	271	
21		6							278	284*	272	
22		8							279	285*	273	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS — IDVAR (1) — IDVAR (2) — NDV

α OR β SCHEDULES

* NOTE: RUNS 280-285: β SCHEDULE IS: -8, -4, 0, 4, 8

TABLE II. CONTINUED

TEST : AIES 11-707 (0A12A) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE 4-23-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	PARAMETERS/VALUES δ_R	PARAMETERS/VALUES δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.9	TEST RUN NUMBERS
RBPx01	$B_{10}C_5D_7N_2F_4M_3N_8V_5R_5W_{87}E_{10}$	A	0	0	0	0	2	119	125	
02		0	B					120	126	
03		5						121	127	
04		10						122	128	
05		15						123	129	
06		20						124	130	
07		0	C		-10			131	136	
08		5						132	137	
09		10						133	138	
10		15						134	139	
11		20						135	140	
12		0			-20			141	146	
13		5						142	147	
14		10						143	148	
15		15						144	149	
16		20						145	150	
17		0	D	10	0			151	156	
18		5	D	10	0			152	160	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS — IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

α A = MAX, 0, 5, 10, 15, 20, 25

β B = -10, -5, 5, 10

β C = 8, -4, 0, 4, 8

β D = -10, 0, 10 β E = -5, 0, 5

TABLE II. CONTINUED

TEST: AMES 11-707 (OA12A) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 4-23-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	PARAMETERS/VALUES δ_R	PARAMETERS/VALUES δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	TEST RUN NUMBERS
RBPx19	$B_{10}C_5D_7N_2E_4M_3N_8V_5R_5W_{87}E_{18}$	10	D	+10	0	0	2	153	157	
20		15						154	159	
21		20						155	158	
22		0	C	-10				161	166	
23		5						162	167	
24		10						163	168	
25		15						164	169	
26		20						165	170	
27		-4	E	-20				171	182	
28		0	C					172	181	
29		5						173	180	
30		10						174	179	
31		15						175	178	
32		20						176	177	
33		-4	E	0	0	40		183	189	
34		0	C					184	190	
35		5						185	191	
36		10						186	192	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES — COEFFICENTS — IDVAR (1) — IDVAR (2) — NDV

α A = -MAX, 0, 5, 10, 15, 20, 25

β B = -10, -5, 5, 10

β C = -8, -4, 0, 4, 8

β D = -10, 0, 10

β E = -5, 0, 5

TABLE II. CONTINUED

TEST: AMES 11-707 (OA12A) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 4-23-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	PARAMETERS/VALUES δ_R	PARAMETERS/VALUES δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	1.1	1.25	1.4	TEST RUN NUMBERS
RBPx37	$B_1C_5D_3N_2F_4M_3N_8V_6R_5W_{07}L_{18}$	15	C	0	0	40		187	193				
38		20	C			40		188	194				
39		F	0			0				199	197	195	
40		0.5	G							200	198	196	
41		-4	E		-10			201	202				
42		-4	E		-20			203	204				
43		-4	E	10	0	0		205	206				
44		-4	E	-10				207	208				
45		-4	E	0				210	209				
46		H	0					216	211				
47		-5	I					215	212				
48		-10	I					214	213				

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES — COEFFICIENTS

α_F = -4.5, -3.5, -1.5, 0.5, 2.5, 4.5, 6.6, 8.6, 10, 15 α_H = 0, -5, -10, -15

β_G = -8, -4, -2, 0, 2, 4, 8 β_I = -10, -5, 5, 10

TABLE II. CONTINUED

TEST: 87-707 (ØA12C) DATA SET/RUN NUMBER COLLATION SUMMARY DATE: 5-9-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.5	TEST RUN NUMBERS
RBQx01	$B_1 C_5 C_7 N_2 F_4 M_3 N_8 V_5 R_1 W_{97} F_{15}$	A	0	0	0	40	2	290	286	
02		0	B					293	289	
03		10	C					292	288	
04		20	C					291	287	
05		0	D		-20			297	294	
06		10						298	295	
07		20						299	296	
08		0		10	0			303	300	
09		10						304	301	
10		20						305	302	
11		0		-20				309	306	
12		10						310	307	
13		20						311	308	
14		0		-40				317	314	
15		10						318	315	
16		20						319	316	
17		E	0	0				322	320	
18		30	D	0				323	321	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES — COEFFICENTS — IDVAR (1) IDVAR (2) NDV

αA = 0, 5, 10, 15, 20
αB = 3, -3
αE = 15, 20, 25, 30, 35, 10
βC = 6, 3, -3, -6
βD = 6, 3, 0, -3, -6

TABLE II. CONCLUDED

TEST: 87-707 (ØA12C) | DATA SET/RUN NUMBER COLLATION SUMMARY | DATE: 5-9-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δe	PARAMETERS/VALUES δR	PARAMETERS/VALUES δFR	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 3.5	TEST RUN NUMBERS
RBQx 19	$B_{10}C_5D_1N_2F_4M_{13}V_8V_9R_5W_{17}E_{18}$	30	D	0	-20	40	2	325	324	
20		30	D	10	0	40		327	326	
21		30	D	-20	0	40		329	328	
22		20	F	0	0	40		332	330	
23		15	G	0	0	40		333	331	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS | IDVAR (1) | IDVAR (2) | NDV

α OR β SCHEDULES

BF = 10, 6, 0, -6, -10

RG = 6, 0, -6

TABLE III. MODEL COMPONENT DIMENSIONAL DATA

MODEL COMPONENT: B10 Body

GENERAL DESCRIPTION: Fuselage, 2A Configuration, Lightweight Orbiter, per Rockwell Lines VL70-000089 "B."

Scale Model = .030

DRAWING NUMBER: VL70-000089 "B"
VL70-000092, 93, 94 "A"

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length ~ IN	1328.3	39.8490
Max. Width ~ IN ($@X_o$ = 1528.3)	265.0	7.9500
Max. Depth ~ IN. ($@X_o$ = 1480.52)	248.0	7.4400
Fineness Ratio	5.012	5.012
Area ~ Ft^2		
Max. Cross-Sectional	456.4	.41076
Planform		
Wetted		
- Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: Canopy - C5

GENERAL DESCRIPTION: 2A Configuration per Lines VL70-000092

Scale Model = .030

DRAWING NUMBER: VL70-000092

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length (STA FWD Bulkhead)	391.0	11.730
Max. Width (T.E. Bulkhead)	560.0	16.800
Max. Depth (WP = 42.9 22 to = 500)		
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: Manipulator Housing D-7

GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000093

Scale Model = .030

DRAWING NUMBER: VL70-000093

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length ~ IN.	881.00	26.430
Max. Width ~ IN.	51.00	1.530
Max. Depth ~ IN.	23.00	.690
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

℄ Fuselage BP = 0.00

WP = 500.0 IN. FS

X.426.0 to 1307.0 IN. FS

MODEL COMPONENT: WING-WBV Low Light Weight Orbiter

GENERAL DESCRIPTION: Orbiter Configuration Per Lines VL70-000093.

NOTE: (Dihedral Angle is defined at the lower surface of the Wing at the 75.33% element line projected into a plane perpendicular.

Scale Model 1:40

TEST NO.

DWG. NO. VL70-000093

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft^2		
Planform	2690.00	2.42100
Span (Theo In.	936.68	28.10040
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.300	0.2000
Dihedral Angle, degrees	3.5000	3.500
Incidence Angle, degrees	3.000	+3.00
Aerodynamic Twist, degrees	3.500	+3.000
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
Trailing Edge	-10.24	-10.24
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.0.0.	689.24	20.67720
Tip, (Theo) B.P. 46834	137.85	4.13550
MAC	474.81	14.24430
Fus. Sta. of .25 MAC	1136.89	34.10670
W.P. of .25 MAC	299.20	8.97840
183.13 B.L. of .25 MAC	182.13	5.46390
EXPOSED DATA		
Area (Theo) Ft^2	1752.29	1.57706
Span, (Theo) In. BP108 to 468.341	720.68	21.62040
Aspect Ratio	2.058	2.058
Taper Ratio	.2451	.2451
Chords		
Root BP108	562.40	16.8720
Tip 1.00 $\frac{b}{2}$	137.85	4.13550
MAC	393.03	11.79090
Fus. Sta. of .25 MAC	1185.31	35.55930
W.P. of .25 MAC	300.207	9.00621
B.L. of .25 MAC	143.76	4.31280
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $\frac{b}{2}$ = .425	.10	.10
Tip $\frac{b}{2}$ = 1.00	.12	.12
Data for (1) of (2) Sides		
Leading Edge Cuff Planform Area Ft^2	130.33	.10830
Leading Edge Intersects Fus M. L. @ Sta	560.0	16.80
Leading Edge Intersects Wing @ Sta	1035.0	31.050

TABLE III. (CONTINUED)

MODEL COMPONENT: Elevon E-18

GENERAL DESCRIPTION: 2A Configuration Per W-87 Rockwell Lines VL 70-000093

Data for (1) of (2) Sides

Scale Model = .030

DRAWING NUMBER: VL 70-000093

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area ~ Ft^2	205.52	.18497
Span (equivalent) ~ IN.	353.34	10.60020
Inb'd equivalent chord	114.78	3.44340
Outb'd equivalent chord	55.00	1.6500
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	.208	.208
At Outb'd equiv. chord	.400	.400
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Tailing Edge	-10.24	-10.24
Hingeline	0.00	0.00
Area Moment (Normal to hinge line) Ft^3	1548.07	.04180
Product of Area Moment		

TABLE III. (CONTINUED)

MODEL COMPONENT: VERTICAL - V5 (Light Weight Orbiter Configuration)

GENERAL DESCRIPTION: Centerline Vertical Tail, Double Wedge Airfoil with Rounded Leading Edge

Scale Model = .030

DRAWING NUMBER: VL70-000095

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) Ft^2	413.25	.37192
Planform		
Span (Theo) In	315.72	9.47160
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	.404	.404
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.249	26.249
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.50	8.05500
Tip (Theo) WP	108.47	3.25410
MAC	199.81	5.99430
Fus. Sta. of .25 MAC	1463.50	43.90500
W. P. of .25 MAC	635.522	19.06566
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.000	10.000
Trailing Wedge Angle Deg	14.920	14.920
Leading Edge Radius IN.	2.00	.06
Void Area Ft^2	13.17	.01185
Blanketed Area Ft^2	12.67	.01140

TABLE III. (CONTINUED)

MODEL COMPONENT: R-5 Rudder

GENERAL DESCRIPTION: ZA Configuration per Rockwell Lines VL 70-000095

Scale Model = .030

DRAWING NUMBER: VL 70-000095

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area ~ Ft^2	106.38	.09574
Span (equivalent) ~IN.	201.0	6.030
Inb'd equivalent chord	91.585	2.74755
Outb'd equivalent chord	50.833	1.52499
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Tailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge line) ~Ft^3 Product of Area and Mean Chord	526.13	.01421

TABLE III. (CONTINUED)

MODEL COMPONENT: OMS Pod -M3

GENERAL DESCRIPTION: 2A Light Weight Configuration per Rockwell Lines VL70-000094A

Scale Model = .030

DRAWING NUMBER: VL70-000094A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	346.0	10.380
Max. Width X_{-} = 1450.0	108.0	3.240
Max. Depth X_{o} = 1500.0	113.0	3.390
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

℄ of OMS Pod

WP = 463.9 IN. FS WP 400 + 63.9 = 463.9

BP = 80.0 IN. FS

Length 1214.0 to 1560.0' = 346.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: F4 Body Flap

GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000094A

Scale Model = .030

DRAWING NUMBER: VL70-000094A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	84.70	2.541
Max. Width	265.00	7.950
Max. Depth		
Fineness Ratio		
Area ~ Ft^2		
Max. Cross-Sectional		
Planform	142.64	.12838
Wetted		
Base Ft^2	38.65	.03478

TABLE III. (CONTINUED)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : S3-Booster Solid Rocket Motor

GENERAL DESCRIPTION : 2A Configuration Per Rockwell Lines VL77-000012 & VL72-000061 "B"

Body of Revolution; Data for (1) of (2) Sides

Scale Model = .030

DRAWING NUMBER : VL 77-000012

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ~IN.	1732.0	51.96
Max Width (DIA) IN. BSRM Tank	142.0	4.260
Max Depth (DIA) Aft Skirt	259.0	7.77
Fineness Ratio L/D	6.687	6.687
Area ~ Ft^2		
Max. Cross-Sectional (Aft Skirt)	365.87	.32928
Planform		
Wetted		
Base		

Ref.

FS (Orbiter) = 0.00 = 747.99 IN. ET = 200.0 IN. BSRM

WP (BSRM) = WP 400(Orbiter) - 344.413 = 55.587 IN.

BP (Orbiter) = 0.00 = 243.0 IN. BSRM

TABLE III. (CONCLUDED)

MODEL COMPONENT: EXTERNAL TANK - T9

GENERAL DESCRIPTION: 2A Configuration

NOTE: T9 identical to T8 W/O retro pkg., nose w/30"R F.S.

DRAWING NUMBER NONE

DIMENSION:	FULL SCALE	MODEL SCALE
Length - IN.	1858	55.740
Max Width (Dia) - IN.	324.0	9.720
Max Depth		
Fineness Ratio L/D	5.73457	5.73457
Area - FT^2		
Max Cross-Sectional	572.56	0.51530
Planform		
Wetted		
Base		
Nose, Radius, IN.	30.0	

ORBITER STATION ~ X_o			RADIAL LOCATION θ ~ DEGREES																
FULL	MODEL	X_o/ℓ_o	0	20	40	55	70	90	105	110	120	135	142	150	157	162	165	169	172	180
200	6.00	0	20																	23
210	6.30	.008	21					22												32
225	6.75	.019	24	25	26	27	28	29			30			31						41
245	7.35	.034	33	34	35	36	37	38			39			40						50
280	8.40	.060	42	43	44	45	46	47			48			49						59
380	11.40	.136	51	52	53	54	55	56			57			58					60	
400	12.00	.151													61					
410	12.30	.158																		
430	12.90	.173	62	63	64	65	66	67			68			69		70		71		72
460	13.80	.196											73							
500	15.00	.226	74	75	76	77	78	79			80			81			82			83
560	16.80	.271	84		85		86	87			88			89			90			91
625	18.75	.320	92		93		94	95			96			97			98			99
725	21.75	.395	100		101		102	103			104			105			106			107
880	26.40	.512	108		109		110	111			112			113			114			115
980	29.40	.587	116		117															
1080	32.40	.662			118		119	120			121			122			123			124
1180	35.40	.738					125	126			127			128						129
1245	37.35	.787			130		131	132	133		134	135		136			137			138
1300	39.00	.828			139		140	141	142		143	144		145			146			
1375	41.25	.885			147		148	149	150		151	152		153			154			
1430	42.90	.926			155		156	157	158		159	160		161			162			
1480	44.40	.964	163				164	165	166		167	168		169			170			
1530[a]	45.90	1.001								171	173									
1530[b]	45.90	1.001								172	174									

a OMS POD, INSIDE

b OMS POD, OUTSIDE

a. Orbiter body

Table IV. Pressure Orifice Locations

ORBITER BASE

LOCATION	ORIFICE NUMBERS
ORBITER BASE (INTEGRATED)	1, 2, 3, 4
LEFT MPS NOZZLE BASE	5
UPPER MPS NOZZLE BASE	6
ACPS BASE AREA ON OMS POD	7
OMS NOZZLE BASE	8
OMS POD BASE	9
ORBITER BASE (STING MOUNT)	11, 12, 13, 14
ORBITER STING CAVITY	15, 16

BODY FLAP LWR SURFACE

ORB. STA. ~ X_o		θ ~ DEG	
FULL	MODEL	0	40
1580	47.40	175	176

MPS NOZZLE

X ~ IN. FWD BASE		θ ~ DEG					
FULL	MODEL	0	90	135	180	225	270
25	0.75	181	182	183	184	185	186
50	1.50	187	188	189	190	191	192
75	225		193	194	195	196	197

OMS NOZZLE

X ~ IN FWD BASE		θ ~ DEG		
FULL	MODEL	135	180	225
10	0.30	177	178	179
20	0.60		180	

VERTICAL TAIL

WATER PLANE ~ Z_o				X/C ~ THEORETICAL VERTICAL CHORD							
FULL	MODEL	η_V		0	.05	.15	.30	.52	.65	.775	.90
525	15.75	.079		400							
550	16.50	.158	L	410	411	412	413	414	415	416	
			R		511	512	513	514	515	516	
600	18.00	.316	L	420	421	422	423	424	425	426	427
			R		521	522	523	524	525	526	527
690	20.70	.60	L	430	431	432	433	434	435	436	437
			R		531	532	533	534	535	536	537
765	22.95	.84	L	440	441	442	443	444	445	446	447
			R		541	542	543	544	545	546	547
792	23.76	.925	L	450	451	452	453	454	455	456	457
			R		551	552	553	554	555	556	557

b. Orbiter Base, Body Flap Lower Surface, and Vertical Tail

Table IV. Continued.

ORBITER WING

ORBITER B.P. – Y_o				X/C – THEORETICAL WING CHORD																			
FULL	MODEL	η		-.49	-.35	-.25	-.15	-.033	0.0	.05	.15	.25	.40	.55	.60	.65	.70	.725	.75	.775	.80	.85	.90	.95
140	4.20	.299	U	200	201		202			203		204		205					206		207	208		209
			L		301		302			303		304		305					306		307	308		309
170	5.10	.364	U			210	211			212														
			L				311			312														
200	6.00	.427	U					220		221	222		223	224					225		226	227	228	229
			L							321	322		323	324					325		326	327	328	329
250	7.50	.534	U						230	231	232	233	234	235				236		237		238	239	240
			L							331	332	333	334	335				336		337		338	339	340
315	9.45	.673	U						250	251	252	253	254	255			256			257		258		259
			L							351	352	353	354	355			356			357		358		359
365	10.95	.780	U						260	261	262	263				264			265			266		267
			L							361	362	363				364			365			366		367
415	12.45	.887	U						270	271	272	273	274		275				276				277	
			L							371	372	373	374		376				376				377	

U – UPPER SURFACE L – LOWER SURFACE

η	X/C LOCAL WING CHORD
.299	0, .094, .229, .362, .497, .700, .834, .865, .900, .965
.364	0, .086, .246
.427	0, .081, .177, .402, .565, .760, .808, .857, .905, .953
.534	SAME AS THEORETICAL CHORD
.673	↓
.780	
.887	

c. Orbiter Wing

Table IV. Continued.

EXTERNAL TANK

TANK STA ~ XT			θ ~ DEG									
FULL	MODEL	XT/LT	0	30	60	90	120	135	150	165	180	270
316.	9.48	0	610									
317.7	9.53	.001	611			614					619	620
400	12.00	.045	621	622	623	624	625		627		629	
520	15.60	.110	631	632	633	634	635		637	638	639	
640	19.20	.174	641	642	643	644	645		647	648	649	
670	20.10	.191	651	652	653	654	655		657	658	659	
710	21.30	.212	661	662	663	664	665		667	668	669	
750	22.50	.234	671	672	673	674	675	676	677	678	679	
850	25.50	.287	681	682	683	684	685		687	688	689	
950	28.50	.341	691	692	693	694	695	696	697	698	699	
1050	31.50	.395	701	702	703	704	705		707	708	709	
1150	34.50	.449	711	712	713	714	715	716	717		719	
1250	37.50	.503	721	722	723	724	725		727	728	729	
1350	40.50	.557	731	732	733	734	735	736	737		739	
1500	45.00	.637	741	742	743	744	745		747	748	749	
1700	51.00	.745	751	752	753		755	756	757		759	
1900	57.00	.853	761	762	763		765	766	767	768		
2040	61.20	.929	771	772	773	774	775	776	777	778		
STING CAVITY BASE			601 602			603					604	

d. External Tank

Table IV. Continued.

LEFT SRM

SRM STATION ~ XS			θ ~ DEG							
FULL	MODEL	XS/ℓS	0	45	90	135	180	225	270	315
200	6.00	0	810							
260	7.80	.034	811	812	813	814	815	816	817	818
370	11.10	.097	821	822	823	824	825	826	827	828
400	12.00	.114	831	832	833	834	835	836	837	838
450	13.50	.142	841	842	843	844	845	846	847	848
550	16.50	.199	851	852	853	854	855	856	857	858
700	21.00	.284	861		863		865	866	867	868
850	25.50	.370	871		873		875		877	
1050	31.50	.484	881		883		885			
1250	37.50	.597	891		893		895			
1450	43.50	.711	901		903		905		907	
1650	49.50	.825	911		913		915		917	
1750	52.50	.882	921	922	923	924	925	926	927	928
1790	53.70	.904	931	932	933	934	935	936	937	938
1850	55.50	.939	941	942	943	944	945	946	947	948
1900	57.00	.967	951	952	953	954	955	956	957	958
NOZZLE BASE			801							
SKIRT BASE			802		803		804		805	

e. Left SRM

Table IV. Concluded.

Notes:

1. Positive directions of force cofficients, moment coefficients, and angles are indicated by arrow
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

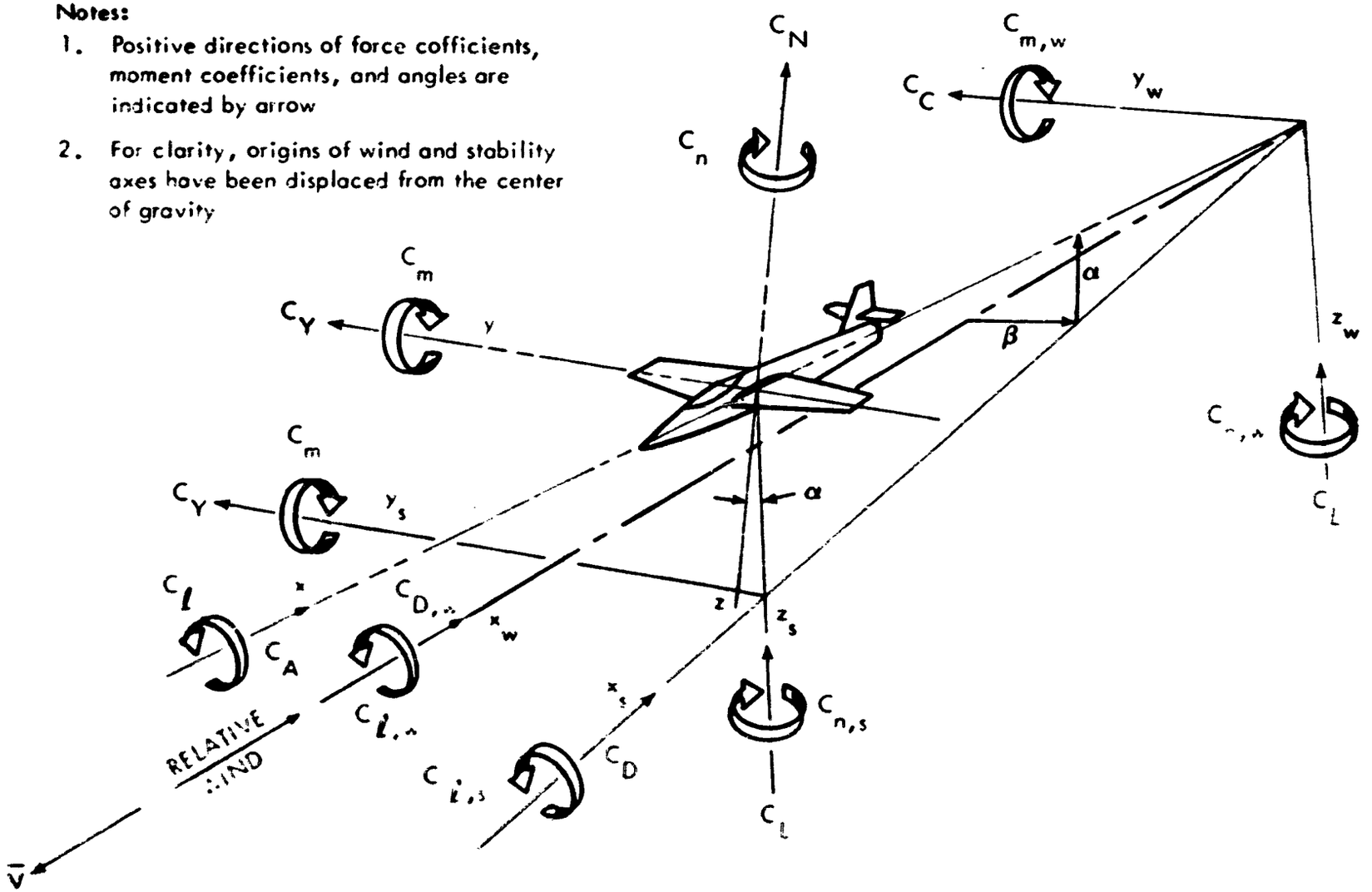
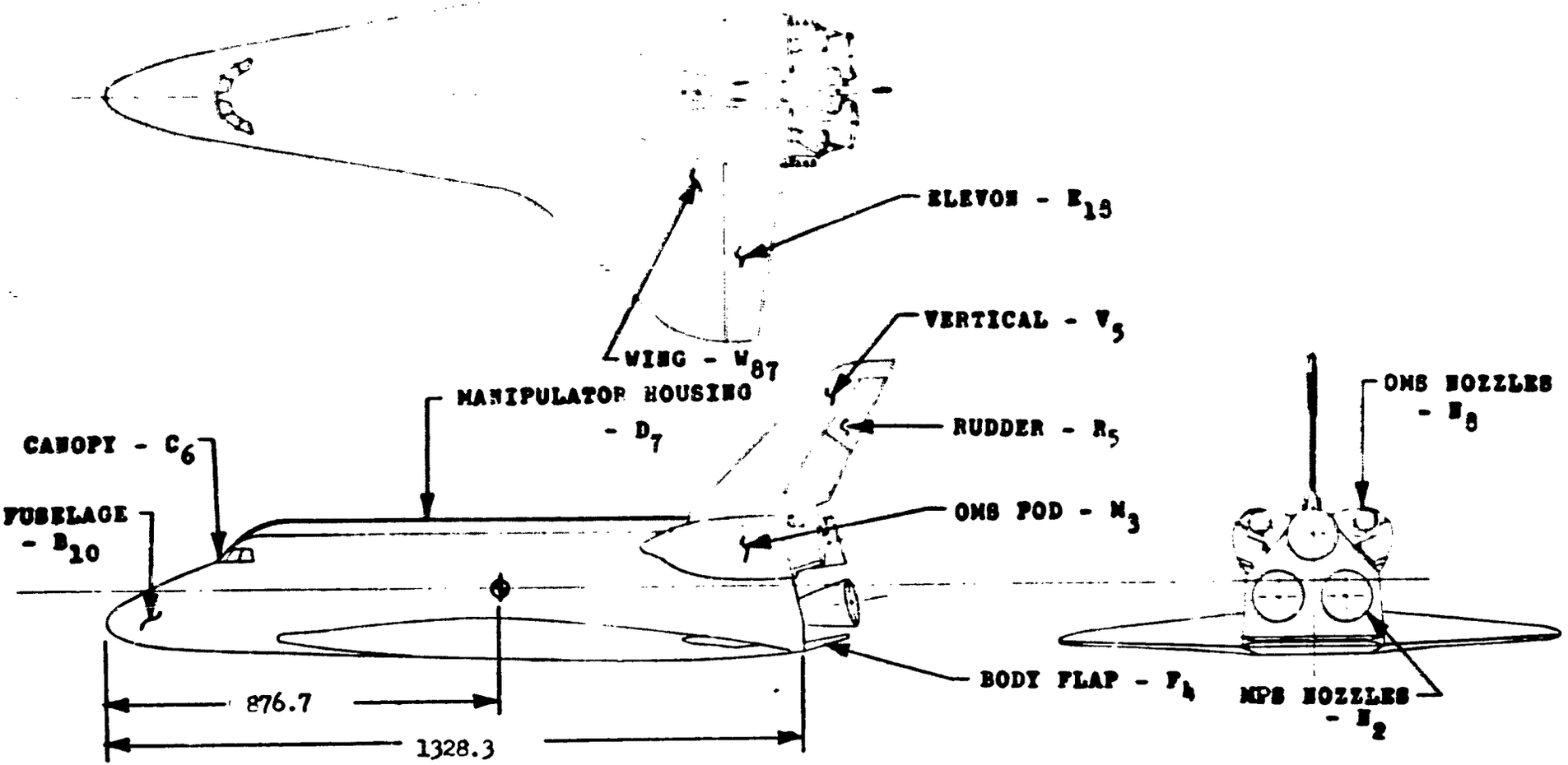


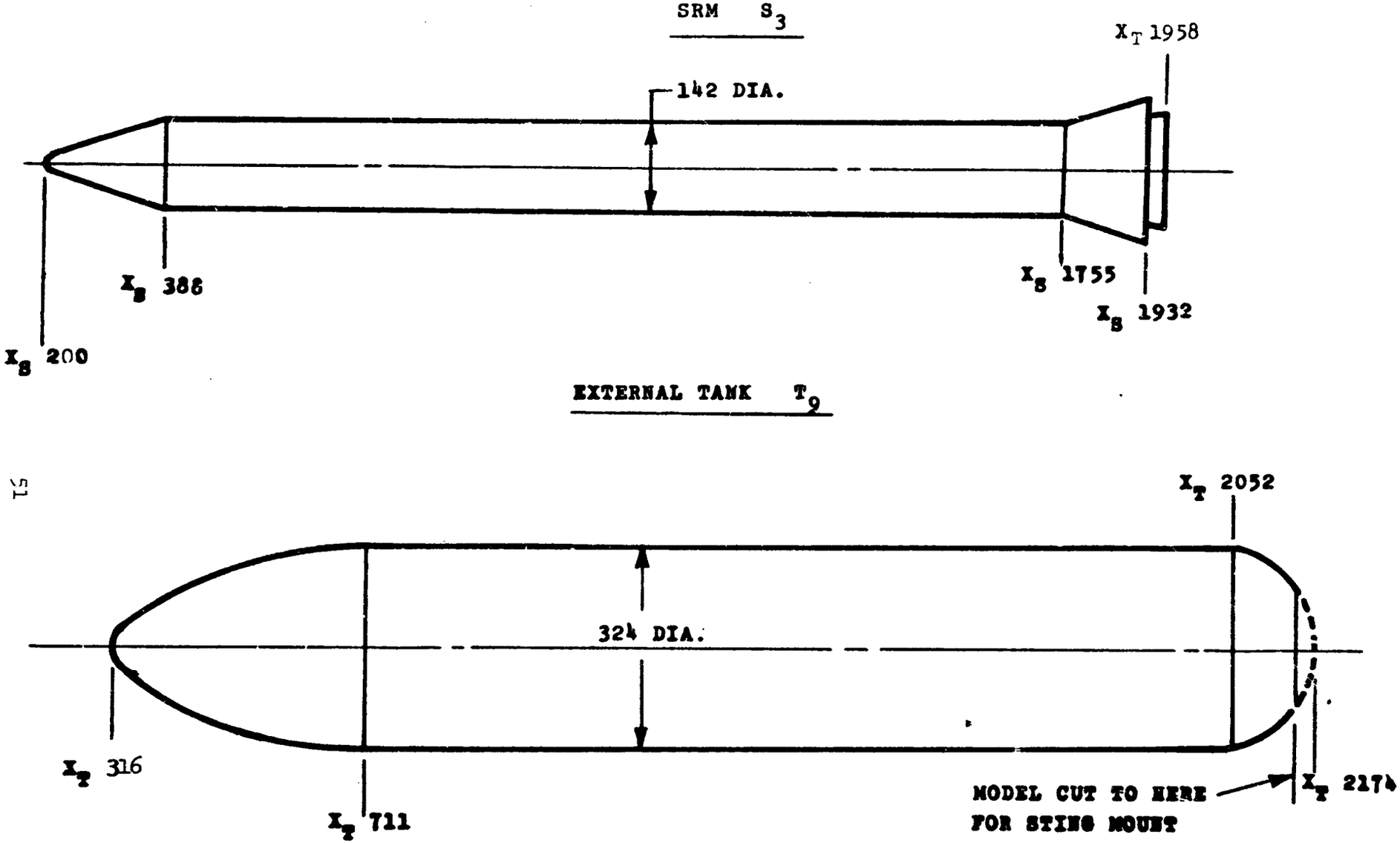
Figure 1. - Axis system.

NOTE: MRP SHOWN IS FOR TEST OA12 (ORBITER ALONE TESTING)



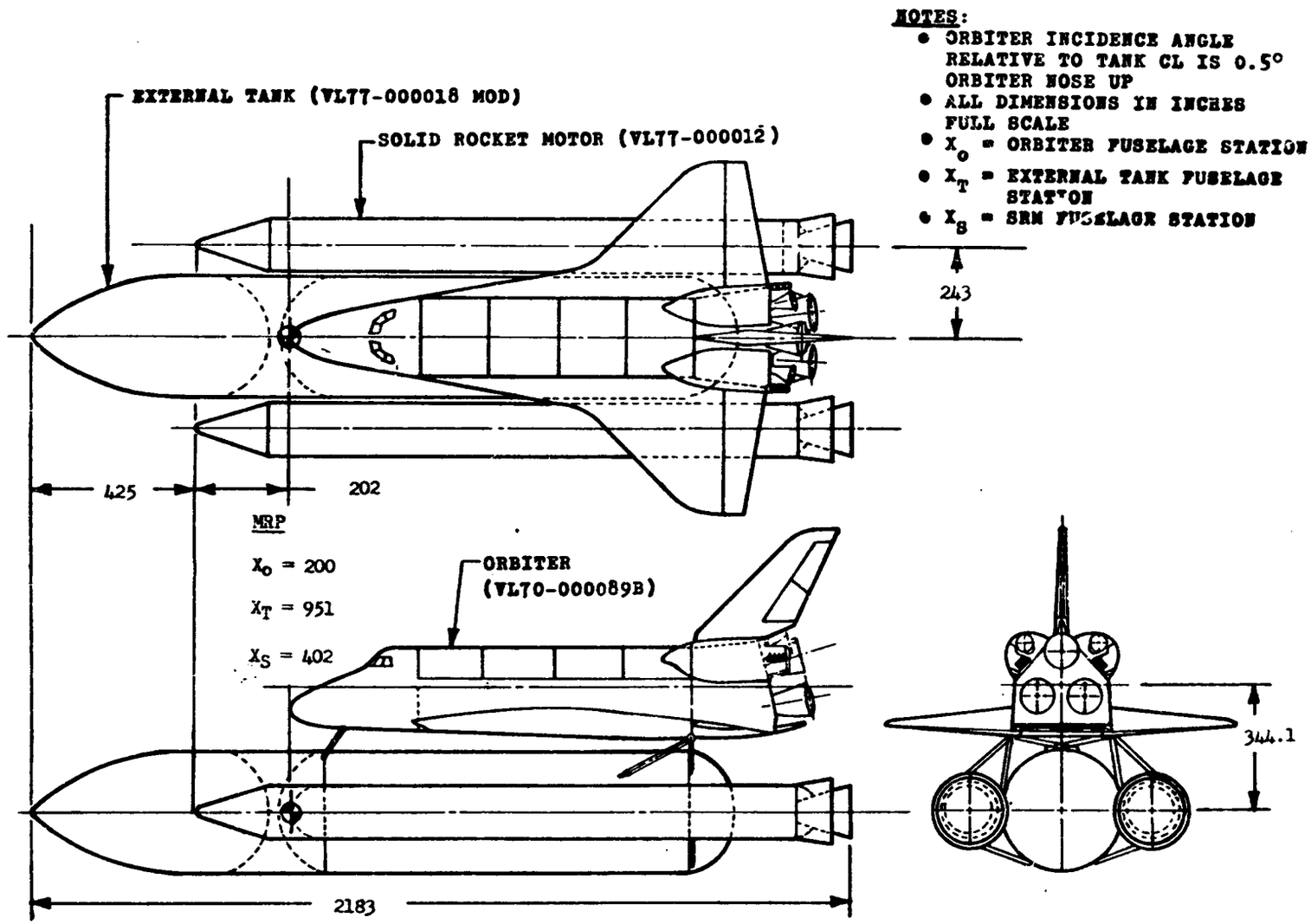
a. Orbiter, O_{2A}

Figure 2. - Model Sketches.



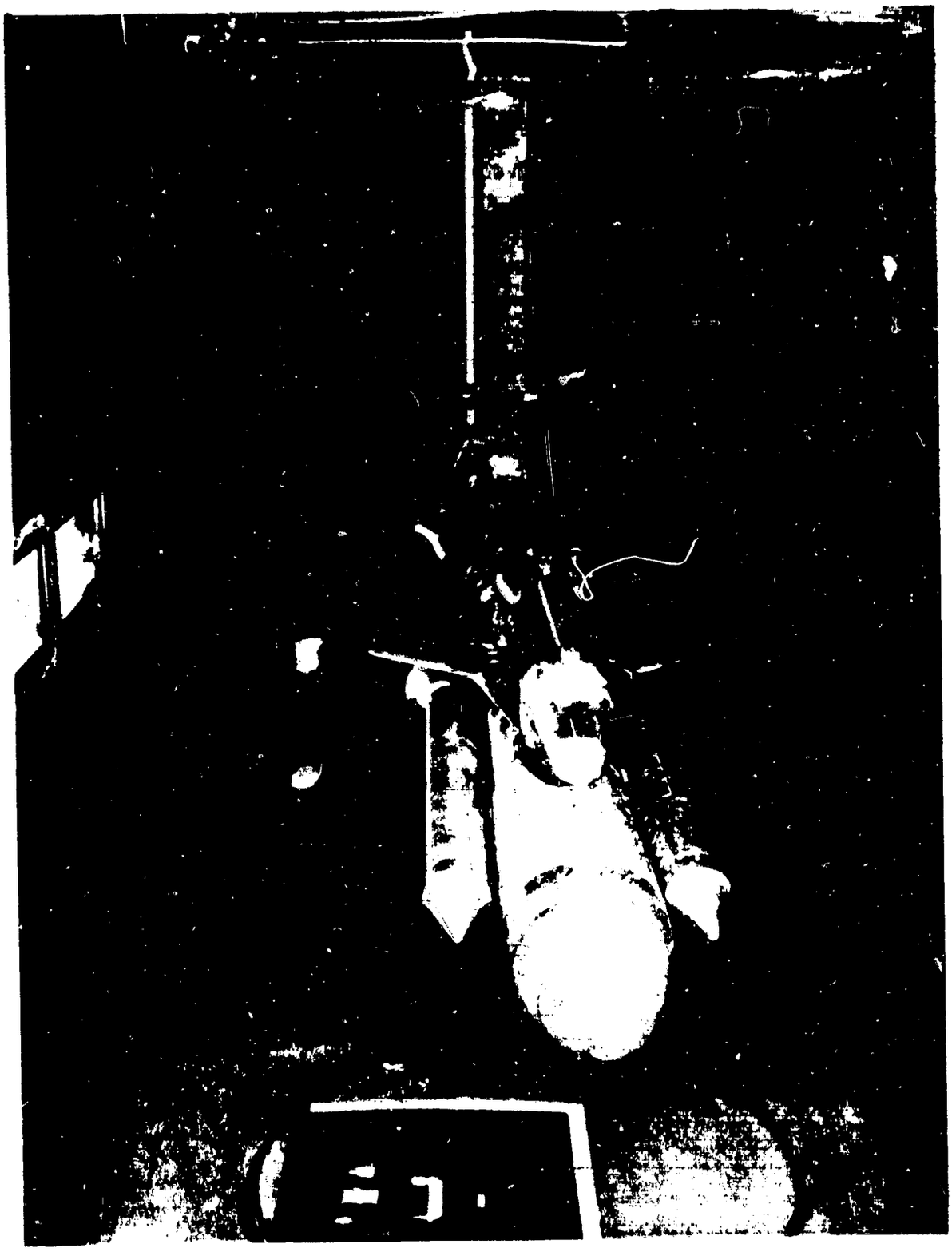
b. SRM, S_3, and External Tank, T_9

Figure 2. - Continued.



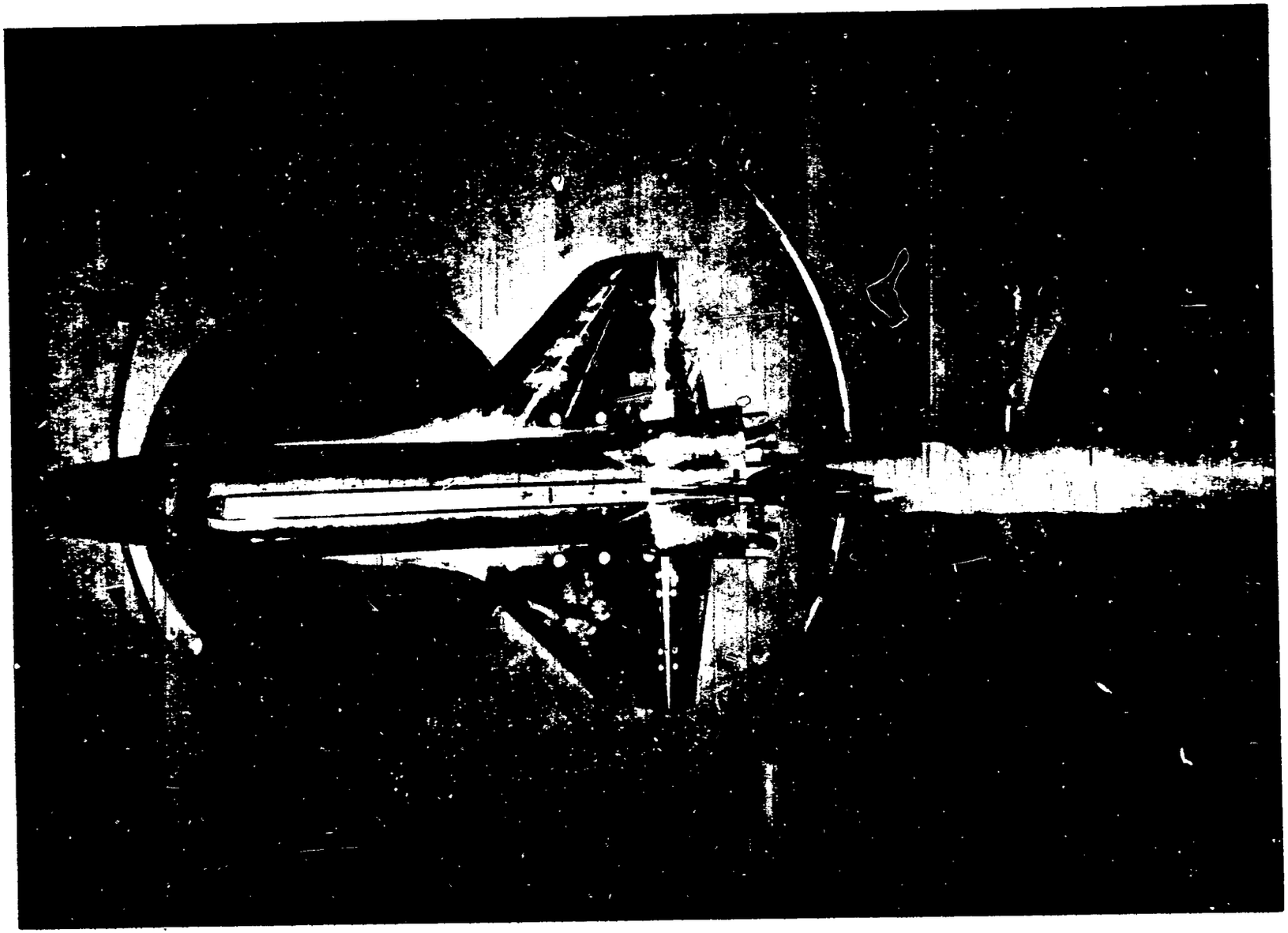
c. Integrated Vehicle

Figure 2. - Concluded.



a. Integrated (Launch) Vehicle Mounted in the ARC 9x7 Ft. Tunnel

Figure 3. - Model Installation Photographs



b. Isolated Orbiter (Entry Configuration) Mounted in the ARC 8x7 Ft. Tunnel

Figure 3. - Concluded.

TABULATED PRESSURE DATA

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS01) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = 1.500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .601 ALPHAT(1) = -8.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9440	-.0850	-.4800	-.8710	-.2510	-.2960	-.1620	-.0940	-.1220	-.2030	-.2880	-.0520	.1180	.1700	.0830
45.000	.9440	-.0790	-.4170	-.8020	-.2800	-.1970							.2110	.1220	.0160
90.000	.9440	-.0310	-.3610	-.6690	-.3120	-.3340	-.3210	-.2430	-.2600	-.2720	-.2880	-.0830	.3160	.2140	.0880
135.000	.9440	.2000	-.1700	-.4970	-.2340	-.2700							.4480	.3300	.1990
180.000	.9440	.4490	.0180	-.2880	-.0310	-.1140	-.1070	-.0810	-.0380	-.1220	-.2380	-.0030	.4970	.3420	.1710
225.000	.9440	.4260	.1320	-.3020	-.1640	-.0750	-.0510						.3850	.2760	.1040
270.000	.9440	.0550	-.3630	-1.5240	-1.3510	-.8490	-.3800	-.1660			-.2820	-.0640	.2200	.3100	.2050
315.000	.9440	-.1290	-.6970	-1.1720	-1.1730	-.4060	-.1270						.3370	.2300	.1420

X/LS	.9670
PHI	
.000	-.0540
45.000	-.0850
90.000	-.0830
135.000	.0190
180.000	.0190
225.000	-.0780
270.000	.0920
315.000	.0010

MACH (1) = .900 ALPHAT(2) = -8.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0050	-.0310	-.4080	-.8040	-.2210	-.1090	-.0830	-.0640	-.0760	-.1170	-.1780	.0120	.1670	.1960	.1160
45.000	1.0050	-.0150	-.3680	-.7440	-.2260	-.1360							.2850	.1980	.0890
90.000	1.0050	.0530	-.2970	-.6160	-.2470	-.1770	-.1580	-.1530	-.1660	-.1790	-.2060	-.0210	.3680	.2590	.1190
135.000	1.0050	.2070	-.1670	-.4730	-.2000	-.1430							.4580	.3400	.1900
180.000	1.0050	.3880	-.0320	-.3190	-.0970	-.0670	-.0580	-.0690	-.0240	-.0880	-.2020	-.0010	.4570	.3370	.1680
225.000	1.0050	.3980	.0630	-.3620	-.0960	-.0910	-.0330						.3550	.2570	.0850
270.000	1.0050	.1530	-.1990	-1.3410	-.8200	-.5450	-.2910	-.1800			-.2590	-.0590	.1740	.2500	.1790
315.000	1.0050	-.0260	-.5790	-1.1130	-.3420	-.1990	-.1450						.1710	.2120	.1800

X/LS	.9670

AMES 11-707 IA9 CRA + S3 +T9 SRM BOOSTER (RBMSD1)

MACH (1) = .598 ALPHAT(2) = -6.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	-.0240
45.000	-.0560
90.000	-.0430
135.000	.0230
180.000	.0200
225.000	-.0740
270.000	.0490
315.000	.0480

MACH (1) = .597 ALPHAT(3) = -4.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9308
PHI															
.000	1.0530	.0310	-.3600	-.7470	-.2110	-.0950	-.0630	-.0450	-.0580	-.0910	-.1490	-.0080	.2700	.2050	.1480
45.000	1.0530	.0410	-.3140	-.6730	-.2040	-.1040							.3410	.2810	.1160
90.000	1.0530	.1030	-.2610	-.5770	-.1970	-.1220	-.0990	-.0920	-.0940	-.1080	-.1390	.0290	.4020	.2980	.1340
135.000	1.0530	.2000	-.1790	-.5080	-.1700	-.1110							.4540	.3390	.1770
180.000	1.0530	.3240	-.0910	-.3620	-.1390	-.0760	-.0630	-.0670	-.0170	-.0670	-.1770	.0090	.4510	.3240	.1510
225.000	1.0530	.3640	-.0160	-.4190	-.1440	-.0680	-.0460						.3360	.2560	.0920
270.000	1.0530	.2230	-.0960	-1.2700	-.5530	-.3920	-.2420	-.1810			-.2450	-.0330	.1720	.2290	.1780
315.000	1.0530	.0700	-.4730	-1.0400	-.2880	-.1470	-.1160						.1830	.2510	.2180

X/LS .9670

PHI	
.000	.0050
45.000	-.0300
90.000	-.0290
135.000	.0140
180.000	.0130
225.000	-.0740
270.000	.0320
315.000	.0820

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBNS01)

MACH (1) = .599 ALPHAT(4) = -2.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0810	.0980	-.3000	-.6830	-.1940	-.0790	-.0490	-.0250	-.0360	-.0660	-.1140	.0140	.3050	.3050	.1750
													.3620	.3030	.1520
45.000	1.0810	.0990	-.2630	-.6090	-.1740	-.0810							.4060	.3190	.1530
90.000	1.0810	.1360	-.2300	-.5420	-.1630	-.0840	-.0600	-.0500	-.0390	-.0480	-.0820	.0640	.4470	.3350	.1710
135.000	1.0810	.2020	-.1800	-.5080	-.1600	-.0800							.4430	.3160	.1410
180.000	1.0810	.2800	-.1320	-.4320	-.1230	-.0740	-.0590	-.0520	-.0030	-.0310	-.1450	.0240	.3460	.2430	.1040
225.000	1.0810	.3310	-.0890	-.5230	-.1230	-.0680	-.0500						.1830	.2730	.1910
270.000	1.0810	.2770	-.0160	-1.0630	-.3760	-.2140	-.1530	-.1140			-.2270	-.0290	.2370	.2630	.2250
315.000	1.0810	.1500	-.3710	-.9090	-.2510	-.1100	-.0600								

X/LS	.9670
PHI	
.000	.0290
45.000	.0030
90.000	.0040
135.000	.0020
180.000	.0030
225.000	-.0690
270.000	.0480
315.000	.0840

MACH (1) = .597 ALPHAT(5) = -.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0920	.1490	-.2330	-.6030	-.1890	-.0760	-.0460	-.0190	-.0250	-.0470	-.0910	.0290	.3500	.3250	.2000
													.3690	.3220	.1710
45.000	1.0920	.1320	-.2370	-.5750	-.1650	-.0680							.3610	.3050	.1500
90.000	1.0920	.1500	-.2190	-.5330	-.1510	-.0680	-.0400	-.0350	-.0220	-.0190	-.0480	.0850	.3800	.3090	.1510
135.000	1.0920	.1750	-.2050	-.5290	-.1420	-.0660							.3850	.2860	.1240
180.000	1.0920	.2180	-.1840	-.4680	-.1500	-.0700	-.0600	-.0560	-.0020	-.0130	-.1140	.0180	.3150	.2460	.0920
225.000	1.0920	.2750	-.1690	-.5930	-.1770	-.0740	-.0540						.1740	.2530	.1970
270.000	1.0920	.2870	.0170	-1.0020	-.2770	-.1200	-.0630	-.0480			-.2110	-.0320	.2490	.2820	.2360
315.000	1.0920	.2200	-.2780	-.7740	-.2250	-.0930	-.0420								

X/LS	.9670
PHI	
.000	.0470
45.000	.0140
90.000	.0140
135.000	-.0130
180.000	-.0170

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 ORA + S3 + T9 SRM BOOSTER (RBMSD1)

MACH (1) = .597 ALPHAT(5) = -.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0710
270.000	.0690
315.000	.1000

MACH (1) = .598 ALPHAT(6) = 1.960

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0920	.2110	-.1910	-.5360	-.1640	-.0640	-.0390	-.0090	-.0130	-.0290	-.0710	.0560	.4240	.3600	.2280
45.000	1.0920	.1680	-.2050	-.5370	-.1600	-.0620							.4090	.3370	.1830
90.000	1.0920	.1520	-.2120	-.5170	-.1440	-.0620	-.0300	-.0250	-.0140	-.0020	-.0220	.0920	.3520	.2940	.1410
135.000	1.0920	.1430	-.2190	-.5360	-.1370	-.0580							.3400	.2800	.1360
180.000	1.0920	.1640	-.2310	-.5090	-.1230	-.0630	-.0500	-.0410	.0050	.0110	-.0800	.0210	.3140	.2640	.1170
225.000	1.0920	.2150	-.2450	-.6650	-.1780	-.0720	-.0490						.2760	.1780	.0850
270.000	1.0920	.2880	.0220	-.9820	-.2530	-.0910	-.0450	-.0230			-.1740	-.0610	.1550	.2570	.2000
315.000	1.0920	.2820	-.1870	-.6460	-.2080	-.0790	-.0270						.3240	.2920	.2510

X/LS .9670

PHI	
.000	.0600
45.000	.0230
90.000	-.0150
135.000	-.0160
180.000	-.0180
225.000	-.0680
270.000	.0660
315.000	.1140

MACH (1) = .597 ALPHAT(7) = 3.930

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0730	.2780	-.1350	-.4980	-.1530	-.0590	-.0300	-.0030	-.0090	-.0200	-.0510	.0800	.4830	.3940	.2400
45.000	1.0730	.1890	-.1780	-.5550	-.1560	-.0750							.4540	.3490	.1870
90.000	1.0730	.1350	-.2250	-.5240	-.1480	-.0680	-.0440	-.0400	-.0240	.0030	-.0070	.0930	.3490	.2790	.1260
135.000	1.0730	.1090	-.2540	-.5650	-.1390	-.0580							.2770	.2380	.0840
180.000	1.0730	.1120	-.2750	-.5280	-.1290	-.0580	-.0420	-.0360	.0150	.0310	-.0530	.0150	.3250	.2560	.1010
225.000	1.0730	.1440	-.3320	-.7610	-.1930	-.0750	-.0500						.2290	.1660	.0700

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBNSD1)

MACH (1) = .397 ALPHAT(7) = 3.930

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.0730	.2560	-.0120	-1.2020	-.3160	-.1450	-.0690	-.0750			-.1480	-.0420	.1620	.2020	.1720
315.000	1.0730	.3250	-.1070	-.5040	-.1660	-.0690	-.0230						.3780	.3040	.2660

X/LS	.9670
PHI	
.000	.0810
45.000	.0320
90.000	-.0200
135.000	-.0510
180.000	-.0520
225.000	-.0530
270.000	.0490
315.000	.1230

MACH (1) = .600 ALPHAT(8) = 5.900

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0410	.3340	-.0760	-.3710	-.1330	-.0470	-.0200	.0070	.0070	-.0170	-.0390	.0940	.5230	.4170	.2650
45.000	1.0410	.2050	-.1660	-.5090	-.1710	-.0820							.4680	.3440	.1880
90.000	1.0410	.0970	-.2520	-.5410	-.1740	-.0950	-.0700	-.0680	-.0480	-.0110	.0000	.0800	.3520	.2510	.0990
135.000	1.0410	.0590	-.2830	-.6070	-.1540	-.0640							.2560	.2040	.0880
180.000	1.0410	.0540	-.3220	-.5730	-.1450	-.0580	-.0380	-.0310	.0190	.0450	-.0200	.0200	.3850	.2530	.1060
225.000	1.0410	.0660	-.4190	-.6680	-.1920	-.0910	-.0760						.2930	.1700	.0780
270.000	1.0410	.2040	-.0700	-1.2120	-.4510	-.2750	-.1810	-.1230			-.1240	-.0130	.1870	.2230	.1980
315.000	1.0410	.3690	-.0200	-.4430	-.1630	-.0540	-.0020						.4160	.3540	.2780

X/LS	.9670
PHI	
.000	.0970
45.000	.0380
90.000	-.0240
135.000	-.0730
180.000	-.0720
225.000	-.0720
270.000	.0620
315.000	.1310

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMSD1)

MACH (1) = .599 ALPHAT(9) = 7.950

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9920	.3970	-.0220	-.3180	-.1170	-.0340	-.0150	.0190	.0070	-.0150	-.0290	.1130	.5480	.4370	.2880
													.4580	.3250	.1810
45.000	.9920	.2020	-.1630	-.4590	-.1890	-.1110									
90.000	.9920	.0360	-.2770	-.5660	-.2220	-.1410	-.1250	-.1120	-.0960	-.0340	.0080	.0680	.3270	.2060	.0800
													.2860	.1680	.0260
135.000	.9920	.0000	-.3260	-.6420	-.1780	-.0880									
180.000	.9920	-.0070	-.3650	-.6120	-.1270	-.0590	-.0410	-.0300	.0210	.0660	.0080	.0240	.4290	.2680	.1090
													.3080	.1870	.0840
225.000	.9920	-.0320	-.5190	-.9270	-.2030	-.1390	-.1190								
270.000	.9920	.1200	-.1690	-1.3510	-.6750	-.4330	-.2460	-.1470			-.1240	.0200	.2460	.2520	.2040
													.4580	.3680	.2870
315.000	.9920	.4000	.0480	-.3760	-.1380	-.0300	.0180								

X/LS	.9670
PHI	
.000	.1120
45.000	.0320
90.000	-.0730
135.000	-.1000
180.000	-.0980
225.000	-.0710
270.000	.0580
315.000	.1370

MACH (2) = .905 ALPHAT(1) = -8.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9383
PHI															
.000	1.0980	.0710	-.1920	-1.1300	-.5720	-.2710	-.0950	-.0570	-.0630	-.1420	-.2770	-.1180	.1800	.1700	.1050
													.1720	.1090	.0780
45.000	1.0980	.0640	-.1310	-1.1190	-.7630	-.2020							.3270	.2830	.1610
90.000	1.0980	.1210	-.1010	-1.1110	-.6540	-.2950	-.2810	-.2220	-.2130	-.2600	-.3640	-.0420			
													.4600	.4000	.2700
135.000	1.0980	.3350	.0500	-1.0350	-.3300	-.2350									
180.000	1.0980	.5690	.2320	-.8900	-.1170	-.1160	-.1770	-.0580	.0150	-.0360	-.3290	-.0480	.4800	.3900	.2310
													.2430	.0860	.0180
225.000	1.0980	.5590	.3730	-.7940	-.0420	-.0840	-.1130								
270.000	1.0980	.2290	.0950	-.9080	-.5360	-.6820	-.2330	-.0570			-.2290	-.2280	.0100	.0780	.1240
													.3200	.2730	.2820
315.000	1.0980	.0440	-.3450	-1.1940	-.7610	-.4890	-.1110								

X/LS	.9670
PHI	
.000	-.0080
45.000	-.0380
90.000	-.0380
135.000	.1280
180.000	.1290

AMES 11-7DT IA9 OEA + S3 + T9 SRM BOOSTER (RBMSD1)

MACH (2) = .905 ALPHAT(1) = -8.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0750
270.000	.0480
315.000	.1920

MACH (2) = .899 ALPHAT(2) = -5.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4833	.5973	.7110	.8248	.8817	.9044	.9308
PHI															
.000	1.1540	.1290	-.1010	-1.1280	-.7150	-.2580	-.0670	-.0400	-.0480	-.0970	-.2080	-.0360	.1980	.1980	.1970
45.000	1.1540	.1310	-.0770	-1.1080	-.6910	-.1270							.2970	.2420	.1380
90.000	1.1540	.1850	-.0410	-1.1070	-.7710	-.1980	-.2090	-.1500	-.1310	-.1090	-.2840	.0770	.3470	.3370	.1980
135.000	1.1540	.3390	.0680	-1.0490	-.4920	-.1840							.4970	.4180	.2960
180.000	1.1540	.5130	.2030	-.9590	-.3540	-.1010	-.1670	-.0390	.0180	-.0890	-.2980	-.0870	.6760	.4110	.2770
225.000	1.1540	.5290	.3360	-.8650	-.6400	-.0940	-.1300						.7970	.4110	.2750
270.000	1.1540	.3210	.2130	-.8750	-.5560	-.0150	-.1300	-.0460			-.2970	-.2210	.3770	.1110	.1190
315.000	1.1540	.1400	-.2180	-1.2070	-.7300	-.4520	-.1 60						.2290	.2220	.2190

X/LS .9670

PHI	
.000	.0410
45.000	.0130
90.000	.0300
135.000	.1220
180.000	.1220
225.000	-.0750
270.000	.0790
315.000	.1310

MACH (2) = .898 ALPHAT(3) = -8.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4833	.5973	.7110	.8248	.8817	.9044	.9308
PHI															
.000	1.1690	.1810	-.0310	-1.1070	-.8760	-.1810	-.0810	-.0890	-.0890	-.0970	-.1880	-.0110	.1080	.0470	.0190
45.000	1.1690	.1840	-.0330	-1.0870	-.8580	-.0910							.2110	.3230	.1690
90.000	1.1690	.2330	.0080	-1.0830	-.7710	-.0820	-.1360	-.0690	-.0800	-.0890	-.1970	.0120	.4210	.3790	.2220
135.000	1.1690	.3580	.0770	-1.0490	-.6210	-.1030							.4110	.4250	.2900
180.000	1.1690	.4810	.1690	-.9820	-.4800	-.0360	-.1360	-.0390	.0180	-.0810	-.1861	-.0120	.5 91	.590	.2760
225.000	1.1690	.4980	.2820	-.9210	-.7440	-.0800	-.1 60						.7480	.4470	.2

AMES 11-FT7 1A9 SEA + 33 + 79 SRM BOOSTER

MACH (2) = .898 ALPHAT(3) = -6.700

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4839	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
2[illegible].000	1.1880	.3750	.3030	-.8340	-.6900	-.5300	-.1720	-.0430			-.1770	-.1990	.0790	.1660	.1780
319.0[illegible]	1.1880	.2230	-.1030	-1.1570	-.8930	-.3500	-.0480						.1220	.1930	.2260

X/LS .9675

PHI	
.000	.0940
45.000	.0970
90.000	.0580
135.000	.1030
180.000	.1180
225.000	-.0500
270.000	.0890
319.000	.1370

MACH (2) = .928 ALPHAT(4) = -1.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4839	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2790	.2370	-.0080	-1.0990	-.8500	-.0680	-.0330	-.0110	-.0080	-.0300	-.1270	.0000	.2890	.3090	.2370
45.000	1.2590	.2330	.0020	-1.0790	-.8280	.0030							.3530	.3810	.2320
90.000	1.2090	.2980	.0280	-1.0740	-.7750	-.0190	-.0790	-.0470	-.0110	-.0210	-.1240	.0700	.4290	.3980	.2330
135.000	1.2090	.3240	.0870	-1.0580	-.6800	-.0380							.4750	.4260	.2320
180.000	1.2590	.4070	.1290	-1.0130	-.5520	-.0230	-.1120	-.0490	.0380	.0341	-.1220	.0080	.4850	.3960	.2120
225.000	1.2090	.4580	.2230	-.9720	-.8430	-.0400	-.0970						.2950	.1990	.0870
270.000	1.2090	.4180	.3820	-.8070	-.8185	-.3500	-.1370	-.0310			-.1810	-.1480	.1240	.1680	.1890
319.000	1.2090	.2970	-.0100	-1.1160	-.8790	-.2470	-.0380						.1690	.1960	.2290

X/LS .9675

PHI	
.000	.1120
45.000	.0910
90.000	.0810
135.000	.0880
180.000	.0980
225.000	-.[illegible]490
270.000	.0680
319.000	.1990

[illegible]

[illegible]

[illegible] DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PHI														
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

PHI	
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

[illegible]

[illegible] DEPENDENT VARIABLE CP

X/LS	.1111	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5975	.7110	.8248	.8817	.9 44	.9388
PHI															
.000	1.2190	.3480	.0790	-1.0620	-.7200	.0190	-.0220	-.0180	.0040	.0020	-.0750	.0300	.4150	.4290	.3130
45.000	1.2190	.2970	.0310	-1.0570	-.7350	.0340							.4220	.4110	.2740
90.000	1.2190	.2750	.0550	-1.0690	-.7660	.0460	-.0380	-.0370	.0080	.0340	-.0290	.0870	.3880	.3810	.2190
135.000	1.2190	.2690	.0350	-1.0750	-.6770	.0360							.3720	.3410	.1880
180.000	1.2190	.2920	.0460	-1.0610	-.7250	.0070	-.0710	-.0510	.0400	.0750	-.0480	-.0040	.3490	.327	.1840
225.000	1.2190	.3900	.0840	-1.0770	-.6270	-.0330	-.0610						.2490	.149	.0710
270.000	1.2190	.4190	.3940	-.7970	-.4900	-.0860	-.0390	-.0380			-.1590	-.1230	.1480	.2041	.2250
315.000	1.2190	.4170	.1440	-1.0320	-.9860	-.0430	-.0340						.2690	.2791	.2910

X/LS .9670

PHI	
.000	.1780
45.000	.1130
90.000	.1190
135.000	.0380
180.000	.0400

MACH (2) = .901 ALPHAT(6) = 2.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.9670
PHI	
225.000	-.0370
270.000	.1370
315.000	.2050

MACH (2) = .899 ALPHAT(7) = 4.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2080	.4020	.1210	-1.0340	-.6430	.0200	-.0210	-.0050	.0130	.0040	-.0630	.0310	.4860	.4670	.3450
45.000	1.2080	.3170	.0650	-1.0430	-.7220	.0200							.4580	.4270	.2840
90.000	1.2080	.2570	.0320	-1.0650	-.7670	.0300	-.0500	-.0540	-.0020	.0410	-.0140	.0710	.3230	.3080	.1960
135.000	1.2080	.2300	.0140	-1.0790	-.3700	.0360							.3220	.2900	.1600
180.000	1.2080	.2400	.0110	-1.0720	-.4260	-.0210	-.0350	-.0500	.0440	.0880	-.0280	-.0250	.3230	.2750	.1450
225.000	1.2080	.2840	.0050	-1.1080	-.5590	-.1430	-.0590						.2180	.1390	.0750
270.000	1.2080	.3940	.3690	-.8040	-.6650	-.1440	-.0390	-.0530			-.1280	-.1100	.1470	.2010	.2130
315.000	1.2080	.4580	.2090	-.9810	-.9030	-.0210	-.0030						.3260	.3320	.3060

X/LS	.9670
PHI	
.000	.2050
45.000	.1380
90.000	.1390
135.000	-.0030
180.000	-.0050
225.000	-.0480
270.000	.1330
315.000	.2250

MACH (2) = .901 ALPHAT(8) = 6.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1780	.4810	.1830	-1.0070	-.5580	.0020	-.0160	-.0030	.0170	.0120	-.0530	.0390	.5510	.5030	.3710
45.000	1.1780	.3270	.0700	-1.0400	-.6730	-.0220							.4930	.4310	.2790
90.000	1.1780	.2210	.0280	-1.0790	-.6720	-.0260	-.0690	-.0800	-.0270	.0430	.0050	.0430	.3100	.2760	.1540
135.000	1.1780	.1820	-.0260	-1.0930	-.4140	.0080							.2810	.2240	.1040
180.000	1.1780	.1670	-.0370	-1.0920	-.3850	-.0610	-.0470	-.0480	.0520	.1070	.0010	-.0590	.3270	.2530	.1250
225.000	1.1780	.2070	-.0940	-1.1330	-.5320	-.2360	-.0350						.2420	.1340	.0700

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMS01)

MACH (2) = .901 ALPHAT(8) = 6.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.1780	.3450	.3060	-.8320	-.6440	-.2380	-.0560	-.0580			-.1080	-.1040	.1720	.2140	.2180
315.000	1.1780	.4940	.2620	-.9340	-.8300	-.0230	.0090						.3980	.3570	.3360

X/LS	.9670
PHI	
.000	.2320
45.000	.1260
90.000	.1260
135.000	-.0430
180.000	-.0470
225.000	-.0440
270.000	.1280
315.000	.2460

MACH (2) = .902 ALPHAT(9) = 8.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1400	.5160	.2000	-.9820	-.4570	-.0150	-.0130	.0070	.0190	.0120	-.0480	.0490	.5990	.5320	.3990
45.000	1.1400	.3270	.0670	-1.0390	-.6160	-.0730							.5030	.4120	.2620
90.000	1.1400	.1620	-.0420	-1.0950	-.5970	-.0960	-.1150	-.1290	-.0680	.0370	.0140	.0030	.2900	.2280	.0870
135.000	1.1400	.1200	-.0720	-1.1160	-.4370	-.0360							.2480	.1710	.0470
180.000	1.1400	.1270	-.0860	-1.1080	-.3550	-.1020	-.0330	-.0470	.0510	.1090	.0150	-.0770	.3440	.2480	.1120
225.000	1.1400	.1110	-.2130	-1.1860	-.3910	-.2810	-.0400						.2500	.1650	.0810
270.000	1.1400	.2690	.2190	-.8770	-.6270	-.3640	-.1070	-.0910			-.0890	-.0710	.1880	.2020	.2130
315.000	1.1400	.5250	.3120	-.8770	-.7360	-.0250	.0270						.4490	.3980	.3570

X/LS	.9670
PHI	
.000	.2490
45.000	.1230
90.000	.0430
135.000	-.0910
180.000	-.0870
225.000	-.0890
270.000	.1120
315.000	.2540

MACH (2) = .901 ALPHAT(10) = 10.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0810	.3690	.2390	-.9510	-.2180	-.0330	-.0070	.0090	.0130	.0090	-.0410	.0700	.6240	.5420	.4170
45.000	1.0810	.3150	.0590	-1.0380	-.3830	-.1400							.4860	.3780	.2370
90.000	1.0810	.0880	-.0920	-1.1190	-.3860	-.1870	-.1840	-.1940	-.1140	.0330	.0270	-.0110	.2570	.1660	.0110
135.000	1.0810	.0450	-.1270	-1.1400	-.4360	-.0980							.2010	.1010	-.0220
180.000	1.0810	.0630	-.1370	-1.1290	-.3710	-.1490	-.0240	-.0440	.0400	.0910	.0240	-.1180	.3140	.2250	.0930
225.000	1.0810	.0070	-.3520	-.8530	-.6430	-.3310	-.0440						.2490	.1780	.0850
270.000	1.0810	.1690	.1170	-.9200	-.5320	-.5510	-.1450	-.1090			-.0690	-.0590	.1900	.2020	.2090
315.000	1.0810	.5430	.3570	-.8200	-.1390	-.0260	.0380						.4830	.4190	.3770

X/LS	.9670
PHI	
.000	.2630
45.000	.0910
90.000	-.0290
135.000	-.1390
180.000	-.1380
225.000	-.0610
270.000	.1070
315.000	.2750

MACH (3) = 1.104 ALPHAT(1) = -8.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2230	.1880	.0690	-.6780	-.5800	-.2240	-.0840	-.1130	-.1160	-.0050	-.1050	-.3380	.1450	.1270	.1250
45.000	1.2230	.1890	.0690	-.6600	-.5490	-.3200							.0600	.0920	.1440
90.000	1.2230	.2630	.0780	-.6610	-.4450	-.2780	-.3790	-.3390	-.3330	-.1600	-.2740	-.2400	.0160	.3370	.2980
135.000	1.2230	.4820	.2960	-.5880	-.1870	-.0920							.1090	.6010	.3830
180.000	1.2230	.6810	.4680	-.4740	-.0090	.1140	.0020	-.1670	-.2210	.0890	-.1790	-.3780	.2640	.5300	.2900
225.000	1.2230	.6390	.5750	-.3810	-.1290	.1610	.0930						.1730	.0240	-.0990
270.000	1.2230	.3320	.2880	-.4890	-.7110	-.5020	-.0460	-.1110			-.0830	-.2430	-.1180	-.0620	.0390
315.000	1.2230	.1380	-.1220	-.8040	-.7870	-.5230	-.0230						.1680	.1330	.2180

X/LS	.9670
PHI	
.000	.0780
45.000	.0800
90.000	.1170
135.000	.2990
180.000	.4980

AMES 11-7?7 IA9 O2A + S3 + T9 SRM BOOSTER (RBMSD1)

MACH (3) = 1.104 ALPHAT(1) = -8.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.9670
PHI	
225.000	-.0800
270.000	.0690
315.000	.2770

MACH (3) = 1.101 ALPHAT(2) = -5.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2600	.2080	.1310	-.6530	-.5510	-.2280	-.0150	-.0630	-.1030	-.0080	-.0460	-.1850	.1030	.1530	.1690
45.000	1.2600	.2280	.1580	-.6440	-.5160	-.2630							.0580	.1540	.2440
90.000	1.2600	.3020	.1990	-.6430	-.4310	-.2480	-.1630	-.2320	-.2560	-.0610	-.1990	-.2930	.0760	.3670	.3430
135.000	1.2600	.4610	.3000	-.5940	-.2630	-.1720							.1350	.5900	.3930
180.000	1.2600	.6100	.4330	-.5160	-.0800	-.0860	.0210	-.1380	-.2470	.1120	-.1540	-.3680	.2370	.5410	.3020
225.000	1.2600	.5800	.5380	-.4300	-.2590	-.0690	.0750						.1640	.0780	-.0440
270.000	1.2600	.3630	.3800	-.4650	-.7700	-.6100	-.2250	-.1500			-.0790	-.2330	-.0990	-.0200	.1040
315.000	1.2600	.2160	-.0050	-.7500	-.7980	-.3480	-.1610						.1270	.1080	.2300

X/LS	.9670
PHI	
.000	.1190
45.000	.1650
90.000	.1920
135.000	.2780
180.000	.2780
225.000	-.0430
270.000	.1220
315.000	.2400

MACH (3) = 1.104 ALPHAT(3) = -3.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2790	.2570	.1830	-.6430	-.5150	-.2080	.0290	-.0030	-.0680	-.0070	-.0310	-.1060	.1470	.1830	.2230
45.000	1.2790	.2730	.2070	-.6250	-.4810	-.2070							.1500	.2740	.3170
90.000	1.2790	.3300	.2230	-.6250	-.4290	-.1740	-.0270	-.1360	-.1870	.0070	-.1200	-.2510	.1770	.3660	.3790
135.000	1.2790	.4320	.3110	-.5980	-.3170	-.1390							.2000	.5480	.4020
180.000	1.2790	.5320	.3970	-.5480	-.1440	-.0930	.0490	-.1020	-.2270	.1310	-.1110	-.3230	.2740	.5160	.3970
225.000	1.2790	.5320	.4850	-.4880	-.3400	-.0830	.0760						.1830	.1390	.0080

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS01)

MACH (3) = 1.104 ALPHAT(3) = -3.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	-.2790	.4040	.4810	-.4230	-.6040	-.5500	-.2710	-.1860			-.0790	-.2030	-.0290	.0630	.1530
315.000	1.2790	.2900	.1[illegible]	-.7010	-.7180	-.2370	-.0330						.0910	.1570	.2010

X/LS	.9670
PHI	
.000	.1900
45.000	.2140
90.000	.2130
135.000	.2710
180.000	.2700
225.000	.0030
270.000	.1280
315.000	.1740

MACH (3) = 1.102 ALPHAT(4) = -2.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2900	.3280	.2280	-.6280	-.4720	-.1860	.0390	.0190	-.0500	-.0080	-.0120	-.1160	.1910	.2970	.3190
45.000	1.2900	.3330	.2410	-.6070	-.4550	-.1720							.2460	.3740	.3640
90.000	1.2900	.3630	.2680	-.6100	-.4180	-.1250	.0550	-.0670	-.1390	.0480	-.0400	-.2140	.2550	.3890	.3890
135.000	1.2900	.4280	.3100	-.5990	-.3610	-.1130							.2540	.4950	.3960
180.000	1.2900	.4960	.3570	-.5700	-.2280	-.0830	.0840	-.0830	-.2030	.1440	-.0670	-.2930	.3050	.5210	.3020
225.000	1.2900	.5190	.4310	-.5400	-.4350	-.0620	.0910						.2440	.1740	.0300
270.000	1.2900	.4720	.5400	-.3990	-.8110	-.3940	-.2620	-.2180			-.0870	-.1810	.0380	.0940	.1630
315.000	1.2900	.3790	.2180	-.6620	-.6790	-.1860	.0020						.0790	.1280	.2050

X/LS	.9670
PHI	
.000	.2510
45.000	.2520
90.000	.2520
135.000	.2520
180.000	.2540
225.000	-.0370
270.000	.1240
315.000	.2060

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS01)

MACH (3) = 1.102 ALPHAT(5) = .030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2940	.3720	.2730	-.6170	-.4290	-.2100	.0340	.0330	-.0390	-.0180	.0090	-.1140	.2450	.3760	.3790
													.3060	.4220	.3900
45.000	1.2940	.3530	.2720	-.6030	-.4350	-.1770							.3190	.4620	.3920
90.000	1.2940	.3620	.2720	-.6120	-.4150	-.1040	.0910	-.0200	-.1110	.0620	.0420	-.1510	.2960	.4540	.3810
135.000	1.2940	.3870	.2880	-.6110	-.3980	-.1170							.2910	.4660	.2950
180.000	1.2940	.4200	.3130	-.5950	-.3390	-.0960	.1080	-.0610	-.1870	.1510	.0230	-.2840	.2020	.1820	.0400
225.000	1.2940	.4550	.3660	-.5900	-.5340	-.0540	.1060						.0440	.1140	.1890
270.000	1.2940	.4570	.5650	-.3890	-.8250	-.1510	-.0460	-.1330			-.0740	-.1530	.0960	.1570	.2470
315.000	1.2940	.4150	.2950	-.6280	-.6260	-.1130	.0080								

X/LS	.9670
PHI	
.000	.2930
45.000	.2890
90.000	.2880
135.000	.2560
180.000	.2550
225.000	-.0390
270.000	.1550
315.000	.2570

MACH (3) = 1.101 ALPHAT(6) = 2.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2920	.4110	.3100	-.6080	-.3780	-.2410	.0280	.0460	-.0190	-.0340	.0360	-.0790	.2990	.4370	.4240
													.3280	.4260	.4000
45.000	1.2920	.3770	.2870	-.5960	-.4130	-.1890							.3310	.4210	.3840
90.000	1.2920	.3540	.2860	-.6080	-.4210	-.1190	.1070	.0130	-.0910	.0560	.0930	-.1180	.3130	.4480	.3580
135.000	1.2920	.3550	.2680	-.6140	-.4 10	-.1050							.3050	.4390	.2700
180.000	1.2920	.3670	.2710	-.6090	-.4090	-.0590	.1190	-.0350	-.1480	.1450	.1170	-.2530	.2220	.1580	.0250
225.000	1.2920	.3980	.2990	-.6270	-.6140	-.0290	.1040						.0720	.1510	.2350
270.000	1.2920	.4470	.5630	-.3870	-.8290	-.0350	.0500	-.0160			-.0760	-.1360	.1360	.2200	.3120
315.000	1.2920	.4620	.3610	-.5920	-.5630	-.0640	.0200								

X/LS	.9670
PHI	
.000	.3330
45.000	.2960
90.000	.2930
135.000	.2500
180.000	.2380

AMES 11-707 IA9 ORA + S3 + T9 SRM BOOSTER (RBMS01)

MACH (3) = 1.101 ALPHAT(6) = 2.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0260
270.000	.1930
315.000	.3020

MACH (3) = 1.102 ALPHAT(7) = 4.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2810	.4840	.3420	-.5950	-.3200	-.1840	.0010	.0530	-.0080	-.0510	.0760	-.0570	.4140	.5190	.4540
45.000	1.2810	.4070	.2930	-.5940	-.4050	-.1910							.3310	.4440	.4110
90.000	1.2810	.3520	.2630	-.6200	-.4350	-.1500	.0900	.0220	-.0960	.0360	.1260	-.0770	.2880	.3580	.2970
135.000	1.2810	.3180	.2390	-.6310	-.4550	-.0730							.3560	.4220	.2980
180.000	1.2810	.3210	.2200	-.6310	-.4690	-.0310	.1150	-.0250	-.1050	.1320	.1350	-.2420	.3250	.4090	.2480
225.000	1.2810	.3510	.2080	-.6770	-.6600	-.0580	.0870						.2070	.1430	.0640
270.000	1.2810	.4410	.5310	-.4070	-.7790	-.1030	.0630	-.0010			-.0360	-.1230	.1060	.1710	.2380
315.000	1.2810	.5090	.4160	-.5570	-.4980	-.0460	-.0010						.2420	.3110	.3490

X/LS .9670

PHI	
.000	.3610
45.000	.3060
90.000	.2540
135.000	.1920
180.000	.1920
225.000	.0030
270.000	.1830
315.000	.3210

MACH (3) = 1.105 ALPHAT(8) = 5.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2710	.5330	.3730	-.5730	-.2570	-.0690	-.0170	.0610	.0100	-.0320	.0790	-.0270	.5110	.5870	.4800
45.000	1.2710	.4100	.2940	-.5920	-.3800	-.1880							.3880	.4950	.4040
90.000	1.2710	.2980	.2240	-.6290	-.4540	-.1970	.0520	.0190	-.1060	.0280	.1460	-.0790	.2840	.3130	.2490
135.000	1.2710	.2590	.2050	-.6480	-.4920	-.0600							.4020	.3450	.2240
180.000	1.2710	.2870	.1790	-.6480	-.5040	-.0690	.1070	-.0020	-.0580	.1440	.1600	-.2330	.3710	.3910	.2010
225.000	1.2710	.2820	.1090	-.7190	-.4920	-.1940	.0750						.2340	.1580	.0840

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AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNSOI)

MACH (3) = 1.105 ALPHAT(8) = 5.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.2710	.3970	.4760	-.4320	-.5130	-.2430	.0340	.0160			-.0160	-.1050	.1060	.1980	.2360
315.000	1.2710	.5450	.4640	-.5160	-.4250	-.0450	-.0090						.2900	.3800	.3680

X/LS	.9670
PHI	
.000	.3890
45.000	.3020
90.000	.2390
135.000	.1360
180.000	.1230
225.000	-.0050
270.000	.1890
315.000	.3490

MACH (3) = 1.102 ALPHAT(9) = 7.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2430	.5760	.4070	-.5580	-.1870	-.0350	-.0460	.0600	.0190	-.0320	.0830	.0020	.5880	.6160	.5040
45.000	1.2430	.4060	.2870	-.5990	-.3560	-.1840							.4460	.5130	.3880
90.000	1.2430	.2420	.1720	-.6530	-.4650	-.2740	-.0260	-.0150	-.1340	.0100	.1530	-.0790	.3010	.3050	.1840
135.000	1.2430	.1940	.1350	-.6680	-.5320	-.1110							.3640	.2440	.1170
180.000	1.2430	.2110	.1060	-.6670	-.4380	-.1150	.0990	.0080	-.0310	.1490	.1780	-.2290	.4090	.3430	.1530
225.000	1.2430	.1870	-.0380	-.5300	-.5240	-.2850	.0390						.2630	.1540	.0580
270.000	1.2430	.3120	.3860	-.4630	-.4930	-.4130	.0160	.0250			-.0010	-.1010	.1250	.2080	.2420
315.000	1.2430	.5550	.5050	-.4730	-.3620	-.0180	.0080						.3640	.3730	.3820

X/LS	.9670
PHI	
.000	.4060
45.000	.2890
90.000	.2890
135.000	.0370
180.000	.0190
225.000	.0010
270.000	.1920
315.000	.3620

AMES 11-707 IA9 CBA + S3 + T9 SRM BOOSTER (RBNSD1)

MACH (3) = 1.102 ALPHAT(10) = 9.950

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2060	.6440	.4400	-.5300	-.1190	-.0110	-.0420	.0360	.0200	-.0290	.0840	.0200	.6420	.8400	.9330
45.000	1.2060	.4320	.2700	-.5980	-.3140	-.1830							.4970	.5090	.3750
90.000	1.2060	.2000	.1150	-.6760	-.4940	-.3430	-.1180	-.0680	-.1800	.0050	.1540	-.0530	.3210	.2650	.1210
135.000	1.2060	.1500	.0660	-.6950	-.5680	-.1470							.3090	.1540	.0300
180.000	1.2060	.1840	.0340	-.7030	-.4210	-.1540	.0800	.0190	-.0140	.1370	.1790	-.1910	.4360	.3000	.1130
225.000	1.2060	.1290	-.1800	-.4830	-.5130	-.3240	.0180						.2850	.1520	.0690
270.000	1.2060	.2570	.3050	-.4880	-.4260	-.5240	.0110	.0400			.0200	-.0840	.1440	.2200	.2340
315.000	1.2060	.5910	.5430	-.4190	-.2930	.0220	.0430						.4350	.3910	.4030

X/LS	.9670
PHI	
.000	.4330
45.000	.2840
90.000	.1640
135.000	-.0280
180.000	-.0270
225.000	-.0110
270.000	.1880
315.000	.3820

MACH (4) = 1.230 ALPHAT(1) = -8.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2980	.1020	.1110	-.4850	-.4350	-.3520	-.0710	-.0980	-.1180	-.0660	-.0210	-.2850	.1380	.0980	.0710
45.000	1.2980	.0150	.1470	-.4740	-.4170	-.2870							.0120	.0420	.0770
90.000	1.2980	.1620	.2030	-.4660	-.3530	-.2590	-.2930	-.4270	-.3490	-.2060	-.2280	-.2500	-.0120	.0850	.3050
135.000	1.2980	.4030	.3720	-.4080	-.1950	-.1270							.0190	.2180	.4830
180.000	1.2980	.5870	.5390	-.3260	.0380	.0080	.1360	-.0910	-.2400	-.1200	-.0780	-.2540	.0050	.5370	.3350
225.000	1.2980	.5870	.6550	-.2480	-.0960	.0480	.2060						.1180	.1170	-.0850
270.000	1.2980	.3380	.4500	-.2940	-.5660	-.4170	-.3320	-.1230			-.0320	-.2250	-.1230	-.1110	.0210
315.000	1.2980	.1380	-.0390	-.6300	-.7050	-.5300	-.1000						.0560	.1200	.2440

X/LS	.9670
PHI	
.000	.0850
45.000	.0850
90.000	.0880
135.000	.3170
180.000	.3170

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM301)

MACH (4) = 1.250 ALPHAT(1) = -8.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0870
270.000	.0590
315.000	.2690

MACH (4) = 1.252 ALPHAT(2) = -5.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3230	.1140	.1690	-.4690	-.4000	-.3810	-.0210	-.0410	-.1050	-.0750	.0110	-.2480	.1480	.1250	.1500
													.0410	.1100	.1780
45.000	1.3230	.0390	.2030	-.4470	-.3770	-.2390							.0620	.1670	.3240
													.0770	.2230	.4750
90.000	1.3230	.1720	.2530	-.4460	-.3290	-.1930	-.2060	-.1680	-.2530	-.1360	-.1290	-.2190	.0590	.3790	.5600
135.000	1.3230	.3560	.3760	-.4030	-.2250	-.1040							.0960	.1770	-.0470
180.000	1.3230	.5010	.5060	-.3440	-.0420	-.0020	.1040	-.0600	-.2190	-.0720	-.0450	-.2370	-.0860	-.0730	.0720
225.000	1.3230	.5240	.6110	-.2850	-.1670	.0370	.2050						.0910	.1220	.2400
270.000	1.3230	.3500	.5330	-.2630	-.5980	-.4170	-.2360	-.1680			-.0430	-.2050			
315.000	1.3230	.1900	.0620	-.5690	-.6520	-.3490	-.1510								

X/LS .9670

PHI	
.000	.1450
45.000	.1570
90.000	.1620
135.000	.3130
180.000	.3330
225.000	-.0060
270.000	.1100
315.000	.2610

MACH (4) = 1.249 ALPHAT(3) = -4.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1136	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3370	.1220	.2220	-.4500	-.3740	-.3540	.0080	-.0190	-.0610	-.0630	.0140	-.2020	.0740	.1610	.2030
													.1190	.2340	.2620
45.000	1.3370	.0710	.2530	-.4290	-.3490	-.2110							.1250	.2740	.3560
													.1250	.2860	.4640
90.000	1.3370	.1680	.2970	-.4250	-.3120	-.1460	-.1780	-.0580	-.1850	-.0970	-.0310	-.1640	.0980	.3510	.3970
135.000	1.3370	.2920	.3730	-.4020	-.2470	-.0870							.0930	.1870	-.0290
180.000	1.3370	.4560	.4600	-.3640	-.1240	-.0230	.0770	-.0300	-.1770	.0290	-.0130	-.2280			
225.000	1.3370	.5010	.5550	-.3250	-.2570	.0210	.1570								

AME3 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNSD1)

MACH (4) = 1.248 ALPHAT(3) = -4.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9385
PHI															
270.000	1.3370	.4170	.6000	-.2330	-.6230	-.4180	-.1030	-.2200			-.0380	-.1900	-.0600	-.0330	.1080
315.000	1.3370	.2760	.1750	-.5190	-.5970	-.3020	-.0390						.1040	.0890	.1940

X/LS	.9670
PHI	
.000	.1950
45.000	.2610
90.000	.2600
135.000	.3310
180.000	.3310
225.000	-.0180
270.000	.1350
315.000	.2230

MACH (4) = 1.250 ALPHAT(4) = -1.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9385
PHI															
.000	1.3490	.1030	.2750	-.4310	-.3420	-.3250	.0190	-.0060	-.0240	-.0360	.0330	-.1390	.1230	.2470	.3150
45.000	1.3490	.1110	.2930	-.4110	-.3210	-.1960							.2060	.3360	.3480
90.000	1.3490	.1690	.2890	-.4100	-.2990	-.1240	-.1440	.0100	-.1180	-.0590	.0170	-.1130	.2000	.3750	.3860
135.000	1.3490	.2030	.3660	-.4020	-.2590	-.0845							.1400	.3460	.4480
180.000	1.3490	.2600	.4230	-.3780	-.1900	-.0510	.0580	-.0060	-.1480	.1240	.0180	-.2310	.1230	.3230	.3880
225.000	1.3490	.4770	.5050	-.3560	-.3320	-.0560	.0470						.1140	.2220	.0010
270.000	1.3490	.4730	.6450	-.2100	-.6280	-.2840	-.0300	-.2620			-.0850	-.1730	.0020	.0200	.1920
315.000	1.3490	.3360	.2790	-.4700	-.5380	-.2200	.0210						.0460	.1180	.2150

X/LS	.9670
PHI	
.000	.3090
45.000	.3270
90.000	.3270
135.000	.3280
180.000	.3280
225.000	.0320
270.000	.1980
315.000	.2390

AMES 11-7ft IA9 OEA + S3 + T9 SRM BOOSTER (RBMSD1)

MACH (4) = 1.249 ALPHAT(5) = .040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3480	.1680	.3240	-.4190	-.3140	-.2840	.0120	-.0100	-.0040	-.0280	.0390	-.1180	.1810	.3040	.3580
45.000	1.3480	.1450	.3220	-.4020	-.3050	-.1870							.2260	.3530	.3680
90.000	1.3480	.1720	.3220	-.4090	-.2890	-.1300	-.0720	.0460	-.0720	-.0610	.0640	-.0820	.2470	.4040	.3800
135.000	1.3480	.1610	.3460	-.4080	-.2800	-.0980							.1700	.4280	.4210
180.000	1.3480	.1650	.3710	-.3980	-.2550	-.0830	.0470	.0160	-.1280	.1360	.0500	-.2570	.1360	.3570	.3570
225.000	1.3480	.3980	.4290	-.3990	-.4170	-.0310	.0830						.1280	.2350	.0260
270.000	1.3480	.4920	.6630	-.1980	-.6270	-.1400	.0030	-.1010			-.0780	-.1610	.0350	.0750	.1730
315.000	1.3480	.4270	.3640	-.4230	-.4820	-.1880	.0090						.0680	.1300	.2530

X/LS	.9670
PHI	
.000	.3450
45.000	.3450
90.000	.3450
135.000	.3440
180.000	.3300
225.000	.0120
270.000	.1810
315.000	.2670

MACH (4) = 1.247 ALPHAT(6) = 2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3480	.2710	.3840	-.4140	-.2880	-.2450	-.0020	-.0120	.0040	-.0220	.0520	-.0730	.2330	.3820	.4120
45.000	1.3480	.1890	.3370	-.4060	-.2990	-.1790							.2630	.3700	.3790
90.000	1.3480	.1980	.3380	-.4170	-.3020	-.1520	-.0280	.0650	-.0410	-.0570	.0970	-.0520	.2810	.3880	.3520
135.000	1.3480	.1250	.3100	-.4240	-.3040	-.1350							.2110	.4390	.3850
180.000	1.3480	.2040	.3070	-.4230	-.3100	-.1410	.0400	.0400	-.1110	.1450	.0790	-.2190	.1540	.3950	.3340
225.000	1.3480	.3620	.3400	-.4490	-.4900	-.0200	.0410						.1530	.2240	.0480
270.000	1.3480	.4360	.6510	-.2080	-.6330	-.1400	.0270	-.0170			-.0750	-.1410	.0550	.0950	.1920
315.000	1.3480	.4450	.4340	-.3960	-.4260	-.2090	.0020						.1210	.1840	.2710

X/LS	.9670
PHI	
.000	.3710
45.000	.3450
90.000	.3420
135.000	.3310
180.000	.2790

DATE 26 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-FOOT IA9 CRA + 55 + 79 SRN BOOSTER (RBH901)

MACH (4) = 1.247 ALPHAT(6) = 2.050

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

R/LS .9870

PHI

229.000 .0090
[illegible] .2580
[illegible] .2970

MACH (5) = 1.248 ALPHAT(7) = 4.040

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

R/LS	.0000	.0361	.0987	.1138	.1422	.1991	.2844	.3897	.4833	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
[illegible]	1.3360	.3490	.4070	-.4030	-.2590	-.1970	-.0290	-.0190	.0160	-.0280	.0810	-.0190	.3170	.4900	.4580
													.2780	.3720	.3820
[illegible]	1.3360	.2780	.3490	-.4140	-.2910	-.1770							.2690	.3500	.3010
[illegible]	1.3360	.1970	.3010	-.4220	-.3180	-.1840	-.0190	.0800	-.0360	-.0440	.1240	-.0150	.1550	.4820	.3330
[illegible]	1.3360	[illegible]	.2760	-.4150	-.3340	-.1690							.1480	.4330	.2990
[illegible]	1.3360	.4470	.2620	-.4440	-.3600	-.1190	.0190	.0870	-.0080	.1740	.1120	-.1690	.1670	.1690	.0830
[illegible]	1.3360	.5400	.2990	-.4990	-.5400	-.1770	.0190				-.0190	-.1300	.0790	.1110	.1950
[illegible]	1.3360	.4760	.4620	-.2780	-.5370	-.2180	.0910	.0190					.2680	.2190	.2960
[illegible]	1.3360	.4460	.4980	-.3690	-.3690	-.2710	-.0190								

R/LS .987[illegible]

PHI

[illegible] .6100
69.[illegible] .5890
90.[illegible] .5890
135.[illegible] .4980
180.[illegible] .2790
225.[illegible] .0610
270.[illegible] .1980
315.[illegible] .3190

MACH (6) = 1.247 ALPHAT(8) = 8.060

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

R/LS	.0000	.0361	.0987	.1138	.1422	.1991	.2844	.3897	.4833	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
[illegible]	1.3290	.6480	.6690	-.3800	-.2110	-.1480	-.0390	-.0290	.[illegible]110	-.0280	.0900	.[illegible]140	.3900	.5290	.4900
													.3110	.3920	.4070
69.[illegible]	1.3290	.5970	.5900	-.4090	-.2850	-.1790							.2990	.3090	.2720
90.[illegible]	1.3290	.4930	.5190	-.4390	-.3420	-.2190	-.0490	.0290	-.0490	-.0490	.1390	-.0810	.3850	.4120	.2920
135.[illegible]	1.3290	.3640	.3410	-.4350	-.3690	-.2.0[illegible]							.1840	.4850	.2830
180.[illegible]	1.3290	.2790	.2170	-.4020	-.3690	-.1990	-.0190	-.0810	-.0490	.1120	.2120	-.1390	.1890	.2990	.0830
225.[illegible]	1.3290	.2690	.1690	-.4150	-.3690	-.2.[illegible]10	-.0[illegible]1								

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2444	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3080	.5280	.4810	-.3740	-.1500	-.0980	-.0330	-.0450	.0030	-.0220	.0350	.0430	.4840	.5890	.5330
45.000	1.3080	.3570	.3460	-.4110	-.2740	-.1810							.3280	.4150	.4310
90.000	1.3080	.1400	.2170	-.4610	-.3550	-.2530	-.1650	-.0380	-.0570	-.0390	.1690	-.0180	.2850	.2820	.2580
135.000	1.3080	.0170	.1910	-.4730	-.3890	-.2830							.3760	.3190	.1930
180.000	1.3080	.0630	.1580	-.4730	-.4140	-.2480	.0180	.0890	-.0350	.1280	.2250	-.1370	.1940	.4700	.2230
225.000	1.3080	.1410	.0280	-.5920	-.4850	-.3880	-.0370						.2030	.2100	.0740
270.000	1.3080	.2910	.4900	-.2890	-.5670	-.3810	-.0670	.0490			.0250	-.1030	.1030	.1560	.2230
315.000	1.3080	.5340	.5880	-.3130	-.2480	-.0600	.0010						.2960	.3340	.3530

X/LS	.9670
PHI	
.000	.4700
45.000	.3680
90.000	.3300
135.000	.1250
180.000	.1200
225.000	.0210
270.000	.2190
315.000	.3600

AMES 11-707 IA9 OEA + S3 + T® SRM BOOSTER (RBM501)

MACH (4) = 1.246 ALPHAT(10) = 9.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2814	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2780	.6035	.5150	-.3650	-.0790	-.0430	-.0290	-.0350	-.0200	-.0110	.0480	.0540	.5330	.6360	.5580
45.000	1.2780	.3880	.3390	-.4180	-.2620	-.1830							.3380	.4840	.4380
90.000	1.2780	.1150	.1720	-.4910	-.3940	-.3150	-.3310	-.1040	- 0940	-.0490	.1620	-.0020	.2890	.3260	.2110
135.000	1.2780	-.0230	.1150	-.5010	-.4340	-.2920							.2890	.1830	.0430
180.000	1.2780	.0700	.1020	-.5020	-.4070	-.3210	-.0020	.0820	-.0030	.1380	.2350	-.1260	.2350	.4290	.1630
225.000	1.2780	.0760	-.1100	-.5200	-.5040	-.3890	-.0400						.2420	.1910	.0650
270.000	1.2780	.2430	.4150	-.3020	-.5810	-.3.50	-.0560	.0550			.0270	-.1010	.1040	.1580	.2190
315.000	1.2780	.5730	.6260	-.2800	-.1900	-.0030	.0120						.3390	.3450	.3780

X/LS .9670

PHI	
.000	.5100
45.000	.3830
90.000	.3320
135.000	-.0350
180.000	-.0550
225.000	-.0490
270.000	.2060
315.000	.3780

AMES 11-70T IA9 CBA + S3 + T9 SRM BOOSTER (RBMS02) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .998 ALPHAT(1) = -8.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9370	-.0980	-.4660	-.8620	-.2420	-.1270	-.1120	-.1000	-.1230	-.2010	-.2970	-.0480	.1140	.1620	.0730
45.000	.9370	-.0880	-.4250	-.8020	-.2780	-.1830							.2200	.1210	.0190
90.000	.9370	-.0340	-.3480	-.6660	-.3140	-.2550	-.2400	-.2390	-.2650	-.2750	-.2870	-.0740	.3280	.2250	.0970
135.000	.9370	.1920	-.1770	-.4930	-.2340	-.2000							.4530	.3330	.1920
180.000	.9370	.4420	.0160	-.2930	-.1160	-.0690	-.0700	-.0630	-.0420	-.1300	-.2480	-.0150	.4590	.3310	.1510
225.000	.9370	.4240	.1350	-.3240	-.1170	-.0420	-.0240						.3830	.2640	.0800
270.000	.9370	.0450	-.3600	-1.5340	-1.1100	-.6660	-.2810	-.1590			-.2980	-.0800	.2490	.3020	.1960
315.000	.9370	-.1310	-.6930	-1.1790	-.4140	-.3070	-.1310						.3190	.2230	.1310

X/LS	.9670
PHI	
.000	-.0610
45.000	-.1020
90.000	-.1000
135.000	-.0250
180.000	.0240
225.000	-.0130
270.000	.0420
315.000	-.0150

MACH (1) = .998 ALPHAT(2) = -6.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0070	-.0380	-.4110	-.8130	-.2260	-.1120	-.0850	-.0700	-.0800	-.1250	-.1920	-.0030	.1700	.1990	.1100
45.000	1.0070	-.0190	-.3620	-.7450	-.2320	-.1410							.2910	.1990	.0740
90.000	1.0070	.0490	-.3270	-.6220	-.2490	-.1770	-.1620	-.1580	-.1690	-.1880	-.2100	-.0180	.3780	.2710	.1240
135.000	1.0070	.2010	-.1760	-.4790	-.2040	-.1540							.4620	.3380	.1880
180.000	1.0070	.3880	-.0350	-.3280	-.1330	-.0710	-.0680	-.0630	-.0310	-.1040	-.2270	-.0090	.4390	.3200	.1480
225.000	1.0070	.3930	.0630	-.3920	-.1400	-.0600	-.0370						.3420	.2260	.0780
270.000	1.0070	.1500	-.2150	-1.3300	-.8210	-.5520	-.2820	-.1780			-.2740	-.0710	.1780	.2210	.1840
315.000	1.0070	-.0290	-.5860	-1.1110	-.3390	-.2060	-.1600						.1590	.2090	.1840

X/LS	.9870

AMES 11-707 IA9 ORA + S3 + T9 SRM BOOSTER (RBMS02)

MACH (1) = .598 ALPHAT(2) = -6.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	-.0260
45.000	-.0530
90.000	-.0540
135.000	.0200
180.000	.0200
225.000	-.0560
270.000	.0430
315.000	.0420

MACH (1) = .599 ALPHAT(3) = -3.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0550	.0270	-.3550	-.7280	-.2010	-.0910	-.0670	-.0430	-.0520	-.0860	-.1430	-.0190	.2710	.2700	.1490
45.000	1.0550	.0440	-.3120	-.6640	-.1980	-.1000							.3470	.2650	.1190
90.000	1.0550	.1080	-.2670	-.5710	-.1980	-.1210	-.0990	-.0920	-.0890	-.1070	-.1380	.0290	.4110	.3050	.1500
135.000	1.0550	.2050	-.1680	-.4880	-.1730	-.1150							.4580	.3360	.1840
180.000	1.0550	.3300	-.0830	-.3560	-.1340	-.0730	-.0640	-.0480	-.0150	-.0710	-.1920	.0000	.4320	.3090	.1340
225.000	1.0550	.3590	-.0110	-.4120	-.1530	-.0690	-.0500						.3330	.2470	.0800
270.000	1.0550	.2300	-.0940	-1.2010	-.5600	-.3820	-.2410	-.1690			-.2390	-.0420	.1870	.2270	.1760
315.000	1.0550	.0670	-.4660	-1.0200	-.2740	-.1400	-.1130						.1870	.2550	.2230

X/LS .9670

PHI	
.000	.0010
45.000	-.0030
90.000	-.0060
135.000	-.0080
180.000	.0130
225.000	-.0380
270.000	.0260
315.000	.0840

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS02)

MACH (1) = .598 ALPHAT(4) = -1.910

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0840	.0920	-.2980	-.6570	-.1880	-.0810	-.0320	-.0330	-.0350	-.0700	-.1170	.0090	.2930	.3010	.1780
													.3800	.3010	.1510
45.000	1.0840	.1010	-.2710	-.6020	-.1830	-.0750									
90.000	1.0840	.1380	-.2360	-.5370	-.1690	-.0640	-.0570	-.0550	-.0440	-.0570	-.0880	.0620	.4090	.3190	.1580
													.4390	.3280	.1700
135.000	1.0840	.1990	-.1830	-.5020	-.1590	-.0900									
180.000	1.0840	.2780	-.1390	-.4360	-.1430	-.0760	-.0610	-.0490	-.0070	-.0450	-.1570	.0030	.4160	.2950	.1310
													.3320	.2410	.0920
225.000	1.0840	.3290	-.0870	-.5070	-.1690	-.0760	-.0580								
270.000	1.0840	.2650	-.0260	-1.0430	-.3740	-.2220	-.1510	-.1170			-.2280	-.0510	.2200	.2610	.1900
315.000	1.0840	.1480	-.3770	-.9020	-.2480	-.1080	-.0640						.2300	.2730	.2260

X/LS	.9670
PHI	
.000	.0300
45.000	.0030
90.000	.0030
135.000	.0040
180.000	.0030
225.000	-.0280
270.000	.0540
315.000	.0820

MACH (1) = .599 ALPHAT(5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0940	.1490	-.2460	-.6140	-.1820	-.0750	-.0390	-.0190	-.0290	-.0460	-.1000	.0300	.3680	.3380	.2080
													.3880	.3250	.1780
45.000	1.0940	.1380	-.2440	-.5620	-.1640	-.0690									
90.000	1.0940	.1540	-.2430	-.5180	-.1530	-.0650	-.0450	-.0310	-.0240	-.0250	-.0480	.0770	.3730	.3120	.1580
													.3690	.3020	.1510
135.000	1.0940	.1780	-.1990	-.5150	-.1500	-.0700									
180.000	1.0940	.2180	-.1820	-.4660	-.1450	-.0690	-.0600	-.0400	.0000	-.0230	-.1320	.0020	.3680	.2850	.1180
													.3160	.2290	.0900
225.000	1.0940	.2740	-.1620	-.5810	-.1710	-.0740	-.0580								
270.000	1.0940	.2850	.0160	-.9810	-.2720	-.1200	-.0690	-.0530			-.2150	-.0220	.2020	.2680	.2160
315.000	1.0940	.2160	-.2830	-.7430	-.2180	-.0900	-.0460						.2850	.2880	.2500

X/LS	.9670
PHI	
.000	.0580
45.000	.0140
90.000	.0150
135.000	.0020
180.000	-.0130

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AMES 11-7D7 IA9 CBA + S3 + T9 SRM BOOSTER (RBNS02)

MACH (1) = .599 ALPHAT(5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0190
270.000	.0600
315.000	.1050

MACH (1) = .599 ALPHAT(6) = 2.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0920	.2060	-.1900	-.5340	-.1620	-.0690	-.0370	-.0180	-.0190	-.0350	-.0780	.0580	.4240	.3720	.2290
45.000	1.0920	.1690	-.1950	-.5240	-.1630	-.0620							.4170	.3410	.1920
90.000	1.0920	.1530	-.2180	-.5110	-.1470	-.0570	-.0340	-.0300	-.0140	-.0100	-.0290	.0910	.3600	.2990	.1480
135.000	1.0920	.1440	-.2210	-.5330	-.1400	-.0650							.3330	.2760	.1260
180.000	1.0920	.1660	-.2280	-.5020	-.1450	-.0690	-.0520	-.0370	.0040	.0010	-.0980	.0090	.3030	.2560	.1030
225.000	1.0920	.2170	-.2400	-.6590	-.1810	-.0750	-.0530						.2290	.2110	.0900
270.000	1.0920	.2850	.0190	-.9430	-.2480	-.0910	-.0490	-.0370			-.2010	-.0510	.1820	.2640	.1990
315.000	1.0920	.2780	-.1960	-.6280	-.2040	-.0790	-.0340						.3200	.3190	.2670

X/LS .9670

PHI	
.000	.0660
45.000	.0340
90.000	.0340
135.000	-.0030
180.000	-.0290
225.000	-.0320
270.000	.0640
315.000	.1200

MACH (1) = .597 ALPHAT(7) = 4.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0780	.2660	-.1310	-.4840	-.1520	-.0590	-.0310	-.0100	-.0100	-.0220	-.0630	.0770	.4870	.3970	.2440
45.000	1.0780	.1920	-.1810	-.5560	-.1580	-.0730							.4540	.3500	.1940
90.000	1.0780	.1350	-.2290	-.5220	-.1540	-.0740	-.0510	-.0440	-.0320	-.0070	-.0160	.0780	.3820	.2830	.1240
135.000	1.0780	.1040	-.2600	-.5580	-.1460	-.0620							.2690	.2260	.0970
180.000	1.0780	.1080	-.2790	-.5400	-.1550	-.0620	-.0480	-.0300	.0140	.0170	-.0750	.0020	.2920	.2480	.0900
225.000	1.0780	.1430	-.3300	-.7600	-.1920	-.0760	-.0540						.2350	.1590	.0630

AMES 11-7D7 IA9 C2A + S3 + T9 SRM BOOSTER (RBM302)

MACH (1) = .397 ALPHAT(7) = 4.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.0780	.2500	-.0110	-1.1750	-.3050	-.1440	-.1010	-.0850			-.1620	-.0480	.2170	.2500	.1690
315.000	1.0780	.3240	-.1110	-.5230	-.1870	-.0690	-.0290						.3710	.3180	.2690

X/LS	.9670
PHI	
.000	.0780
45.000	.0340
90.000	.0340
135.000	-.0540
180.000	-.0540
225.000	-.0550
270.000	.0450
315.000	.1220

MACH (1) = .599 ALPHAT(8) = 6.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0470	.3330	-.0770	-.4180	-.1390	-.0470	-.0290	-.0010	-.0010	-.0170	-.0520	.0910	.5290	.4230	.2720
45.000	1.0470	.1970	-.1680	-.5330	-.1730	-.0830							.4710	.3450	.1870
90.000	1.0470	.0900	-.2510	-.5530	-.1840	-.1030	-.0780	-.0720	-.0640	-.0270	-.0200	.0630	.3650	.2540	.0930
135.000	1.0470	.0580	-.2910	-.6130	-.1560	-.0780							.2440	.1910	.0610
180.000	1.0470	.0490	-.3230	-.5790	-.1520	-.0620	-.0450	-.0320	.0120	.0280	-.0420	.0130	.3660	.2500	.0840
225.000	1.0470	.0640	-.4250	-.8790	-.2120	-.0960	-.0780						.2720	.1820	.0640
270.000	1.0470	.2040	-.0700	-1.2070	-.4540	-.2720	-.1860	-.1420			-.1920	-.0160	.1750	.2450	.1800
315.000	1.0470	.3650	-.0260	-.4550	-.1660	-.0510	-.0150						.4030	.3330	.2760

X/LS	.9670
PHI	
.000	.0950
45.000	.0280
90.000	.0280
135.000	-.0780
180.000	-.0780
225.000	-.0770
270.000	.0510
315.000	.1340

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AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMS02)

MACH (1) = .997 ALPHAT(9) = 8.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9930	.3690	-.0200	-.3680	-.1160	-.0370	-.0210	.0020	-.0030	-.0130	-.0490	.1040	.5400	.4400	.2820
45.000	.9930	.2030	-.1650	-.4680	-.1950	-.1140							.4930	.3210	.1750
90.000	.9930	.0330	-.2870	-.5690	-.2260	-.1490	-.1280	-.1300	-.1130	-.0510	-.0180	.0460	.3300	.2030	.0480
135.000	.9930	-.0100	-.3380	-.6460	-.1860	-.0980							.2470	.1590	.0190
180.000	.9930	-.0130	-.3700	-.6070	-.1630	-.0600	-.0510	-.0390	.0110	.0440	-.0100	.0200	.4180	.2580	.1040
225.000	.9930	-.0270	-.3270	-.9580	-.2460	-.1320	-.1260						.2970	.1670	.0800
270.000	.9930	.1170	-.1730	-1.3160	-.6700	-.4330	-.2580	-.1630			-.1220	-.0090	.2090	.2280	.2260
315.000	.9930	.3960	.0400	-.3790	-.1470	-.0350	.0020						.4470	.3690	.2880

X/LS	.9670
PHI	
.000	.1160
45.000	.0230
90.000	.0210
135.000	-.1070
180.000	-.1060
225.000	-.0940
270.000	.0480
315.000	.1370

MACH (2) = .905 ALPHAT(1) = -8.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0960	.0700	-.1490	-1.1300	-.5810	-.2740	-.0910	-.0480	-.0590	-.1390	-.2840	-.1080	.1880	.1790	.1190
45.000	1.0960	.0690	-.1380	-1.1150	-.7700	-.1990							.1820	.1790	.0880
90.000	1.0960	.1220	-.1320	-1.1100	-.6370	-.2860	-.2780	-.2110	-.2120	-.2530	-.4060	-.0330	.3200	.3060	.1800
135.000	1.0960	.3350	.0540	-1.0330	-.3330	-.2530							.4710	.4190	.2740
180.000	1.0960	.5700	.2420	-.8950	-.1140	-.1190	-.1990	-.0900	.0210	-.0350	-.3670	-.0430	.4690	.3860	.2110
225.000	1.0960	.3590	.3850	-.7860	-.0460	-.0830	-.1310						.2420	.0570	.0080
270.000	1.0960	.2290	.0980	-.9060	-.5310	-.8800	-.2580	-.0490			-.2420	-.2340	.0100	.0670	.1270
315.000	1.0960	.0490	-.3390	-1.2040	-.7540	-.4720	-.1000						.3320	.2730	.2830

X/LS	.9670
PHI	
.000	-.0030
45.000	-.0290
90.000	-.0290
135.000	.1280
180.000	.1270

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS02)

MACH (2) = .903 ALPHAT(1) = -8.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0790
270.000	.0430
315.000	.1930

MACH (2) = .901 ALPHAT(2) = -6.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1490	.1220	-.1000	-1.1210	-.6450	-.2510	-.0590	-.0360	-.0370	-.0870	-.2070	-.0340	.1810	.2060	.1590
45.000	1.1490	.1300	-.0800	-1.1030	-.6910	-.1170							.2430	.2550	.1470
90.000	1.1490	.1840	-.0770	-1.0990	-.7640	-.1860	-.2010	-.1420	-.1260	-.1610	-.2700	.0070	.3980	.3540	.2080
135.000	1.1490	.3430	.0640	-1.0470	-.4630	-.1810							.4870	.4300	.2690
180.000	1.1490	.5150	.2010	-.9540	-.3440	-.0970	-.1770	-.0500	.0210	-.0180	-.2470	-.0300	.4560	.3880	.2070
225.000	1.1490	.5300	.3350	-.8540	-.5880	-.0890	-.1230						.2410	.0870	.0240
270.000	1.1490	.3140	.2030	-.8730	-.5640	-.8130	-.1940	-.0380			-.2140	-.2290	.0060	.1050	.1580
315.000	1.1490	.1390	-.2170	-1.2000	-.7160	-.4330	-.1070						.2250	.2150	.2140

X/LS .9670

PHI	
.000	.0520
45.000	.0340
90.000	.0320
135.000	.0920
180.000	.1230
225.000	.0040
270.000	.0630
315.000	.1300

MACH (2) = .900 ALPHAT(3) = -4.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1900	.1780	-.0550	-1.1150	-.7080	-.1690	-.0390	-.0200	-.0210	-.0610	-.1540	-.0040	.1910	.2930	.2160
45.000	1.1900	.1870	-.0350	-1.0930	-.8640	-.0490							.3190	.3290	.2000
90.000	1.1900	.2350	-.0370	-1.0910	-.7750	-.0910	-.1280	-.0840	-.0540	-.0800	-.1950	.0400	.4270	.3920	.2350
135.000	1.1900	.3380	.0640	-1.0580	-.6100	-.1060							.4850	.4320	.2720
180.000	1.1900	.4620	.1620	-.9890	-.4430	-.0660	-.1460	-.0510	.0270	.0050	-.1790	-.0150	.4930	.3830	.2080
225.000	1.1900	.5020	.2780	-.9190	-.7290	-.0750	-.1140						.2630	.1320	.0520

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBMSD2)

MACH (2) = .900 ALPHAT(3) = -4.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.1900	.3840	.2870	-.8430	-.6450	-.5250	-.1710	-.0380			-.1860	-.1970	.0570	.1290	.1810
315.000	1.1900	.2270	-.1130	-1.1630	-.6980	-.3280	-.0670						.1220	.1950	.2200

X/LS	.9670
PHI	
.000	.0970
45.000	.0770
90.000	.0760
135.000	.1160
180.000	.1230
225.000	-.0360
270.000	.0740
315.000	.1450

MACH (2) = .896 ALPHAT(4) = -1.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2100	.2320	-.0100	-1.0970	-.8550	-.0840	-.0370	-.0180	-.0150	-.0390	-.1290	-.0030	.2530	.3070	.2370
45.000	1.2100	.2310	-.0070	-1.0770	-.8300	-.0060							.3500	.3830	.2350
90.000	1.2100	.2630	.0250	-1.0780	-.7720	-.0200	-.0830	-.0530	-.0130	-.0220	-.1290	.0770	.4270	.4080	.2420
135.000	1.2100	.3250	.0630	-1.0620	-.6740	-.0420							.4670	.4280	.2550
180.000	1.2100	.4070	.1270	-1.0150	-.5380	-.0300	-.1240	-.0560	.0330	.0250	-.1360	-.0100	.4340	.3780	.1910
225.000	1.2100	.4580	.2250	-.9680	-.8270	-.0440	-.1070						.2690	.1490	.0550
270.000	1.2100	.4130	.3520	-.8120	-.6330	-.3370	-.1300	-.0470			-.1660	-.1770	.0670	.1570	.1850
315.000	1.2100	.2970	-.0180	-1.1220	-.7000	-.2460	-.0420						.1210	.1760	.2260

X/LS	.9670
PHI	
.000	.1090
45.000	.1070
90.000	.1060
135.000	.0910
180.000	.1040
225.000	-.0100
270.000	.0880
315.000	.1610

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS02)

MACH (2) = .899 ALPHAT(5) = .010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2120	.2850	.0350	-1.0780	-.7930	-.0050	-.0310	-.0120	-.0090	-.0230	-.1040	.0070	.3390	.3840	.2750
													.4010	.3920	.2570
45.000	1.2120	.2670	.0350	-1.0640	-.7970	.0290							.3950	.3860	.2410
90.000	1.2120	.2740	.0340	-1.0690	-.7690	.0280	-.0540	-.0360	.0040	.0040	-.0770	.0880	.4180	.3920	.2330
135.000	1.2120	.2980	.0520	-1.0670	-.7210	.0060							.3950	.3500	.1790
180.000	1.2120	.3480	.0890	-1.0370	-.6260	-.0030	-.1050	-.0550	.0340	.0470	-.1000	.0090	.2620	.1520	.0600
225.000	1.2120	.4020	.1620	-1.0170	-.9140	-.0230	-.0930						.1060	.1820	.2020
270.000	1.2120	.4230	.3860	-.7960	-.6030	-.1630	-.0690	-.0380			-.1600	-.1490	.1780	.2090	.2430
315.000	1.2120	.3580	.0690	-1.0770	-.7900	-.1210	-.0420								

X/LS	.9670
PHI	
.000	.1480
45.000	.1030
90.000	.1020
135.000	.0780
180.000	.0770
225.000	.0370
270.000	.1090
315.000	.1740

MACH (2) = .898 ALPHAT(6) = 2.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2200	.3430	.0800	-1.0590	-.7220	.0190	-.0290	-.0130	.0050	-.0030	-.0780	.0280	.4180	.4270	.3140
													.4320	.4200	.2810
45.000	1.2200	.2980	.0500	-1.0540	-.7590	.0350							.4000	.3730	.2250
90.000	1.2200	.2750	.0510	-1.0670	-.7660	.0420	-.0410	-.0390	.0030	.0260	-.0410	.0900	.3600	.3550	.2090
135.000	1.2200	.2700	.0330	-1.0740	-.7300	.0330							.3220	.3080	.1580
180.000	1.2200	.2980	.0480	-1.0580	-.7140	.0040	-.0830	-.0580	.0300	.0620	-.0660	.0090	.2220	.1410	.0830
225.000	.2200	.3510	.0880	-1.0640	-.6480	-.0480	-.0720						.1280	.2040	.2100
270.000	1.2200	.4200	.3870	-.7950	-.5050	-.0910	-.0470	-.0420			-.1570	-.1280	.2570	.2690	.2730
315.000	1.2200	.4190	.1370	-1.0320	-.9890	-.0490	-.0400								

X/LS	.9670
PHI	
.000	.1760
45.000	.1270
90.000	.1280
135.000	.0730
180.000	.0500

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AMES 11-707 IA9 CBA + SS + T9 SRM BOOSTER (RBNSD2)

MACH (2) = .898 ALPHAT(6) = 2.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0110
270.000	.1370
315.000	.2090

MACH (2) = .905 ALPHAT(7) = 4.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2070	.4000	.1230	-1.0360	-.6400	.0200	-.0150	-.0020	.0120	.0030	-.0550	.0370	.5040	.4780	.3480
45.000	1.2070	.3190	.0620	-1.0430	-.7160	.0190							.4840	.4490	.2890
90.000	1.2070	.2590	.0270	-1.0670	-.7280	.0280	-.0470	-.0500	-.0030	.0350	-.0140	.0750	.3530	.3420	.2060
135.000	1.2070	.2320	.0120	-1.0820	-.3580	.0350							.3100	.2950	.1630
180.000	1.2070	.2430	.0110	-1.0730	-.4110	-.0200	-.0660	-.0510	.0410	.0790	-.0570	-.0140	.3140	.2710	.1420
225.000	1.2070	.2900	.0110	-1.1070	-.5490	-.1340	-.0630						.2160	.1490	.0740
270.000	1.2070	.3920	.3660	-.8050	-.6640	-.1230	-.0510	-.0610			-.1130	-.1130	.1460	.1950	.2150
315.000	1.2070	.4590	.2030	-.9810	-.9090	-.0090	-.0060						.3390	.3240	.3070

X/LS .9670

PHI	
.000	.2010
45.000	.1480
90.000	.1470
135.000	.0450
180.000	.0080
225.000	.0020
270.000	.1380
315.000	.2260

MACH (2) = .897 ALPHAT(8) = 6.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1720	.4540	.1600	-1.0080	-.5580	.0020	-.0150	-.0010	.0080	.0090	-.0570	.0430	.5570	.5040	.3770
45.000	1.1720	.3210	.0640	-1.0360	-.6730	-.0220							.5010	.4350	.2820
90.000	1.1720	.2160	.0220	-1.0740	-.7300	-.0240	-.0780	-.0900	-.0370	.0300	-.0090	.0490	.3240	.2980	.1630
135.000	1.1720	.1800	-.0210	-1.0930	-.4140	.0080							.2810	.2350	.1090
180.000	1.1720	.1800	-.0310	-1.0880	-.3790	-.0570	-.0580	-.0610	.0480	.0890	-.0200	-.0410	.3330	.2570	.1230
225.000	1.1720	.2010	-.0080	-1.1510	-.5380	-.2300	-.0500						.2380	.1340	.0840

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS02)

MACH (2) = .997 ALPHAT(8) = 6.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.1720	.3350	.3090	-.8330	-.6310	-.2380	-.0680	-.0840			-.0980	-.1030	.1820	.2030	.2240
315.000	1.1720	.4880	.2630	-.9330	-.8290	-.0210	.0070						.3980	.3580	.3290

X/LS	.9670
PHI	
.000	.2290
45.000	.1380
90.000	.1380
135.000	-.0170
180.000	-.0380
225.000	-.0380
270.000	.1340
315.000	.2460

MACH (2) = .900 ALPHAT(9) = 8.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1290	.5050	.1970	-.9620	-.4800	-.0230	-.0160	-.0010	.0030	.0070	-.0520	.0900	.5980	.5330	.3930
													.5030	.4180	.2580
45.000	1.1290	.3190	.0640	-1.0370	-.6180	-.0620							.3040	.2420	.0850
90.000	1.1290	.1590	-.0290	-1.0950	-.5390	-.1020	-.1240	-.1520	-.0860	.0180	.0040	.0130	.2310	.1870	.0440
135.000	1.1290	.1170	-.0700	-1.1160	-.4250	-.0360							.3550	.2570	.1090
180.000	1.1290	.1290	-.0830	-1.1080	-.3800	-.1020	-.0460	-.0710	.0410	.0920	-.0030	-.0780	.2440	.1710	.0730
225.000	1.1290	.1100	-.2580	-1.1860	-.6110	-.2680	-.0500						.1770	.2040	.2090
270.000	1.1290	.2980	.2170	-.8790	-.6490	-.3670	-.1130	-.1180			-.0830	-.0910	.4470	.3850	.3490
315.000	1.1290	.5150	.3110	-.8770	-.7500	-.0300	.0160								

X/LS	.9670
PHI	
.000	.2410
45.000	.1130
90.000	.1140
135.000	-.0830
180.000	-.0840
225.000	-.0330
270.000	.1220
315.000	.2580

AMES 11-FT IA9 OEA + S3 + T9 SRN BOOSTER (SHROUD)

MACH (3) = 1.132 ALPHAT(1) = -8.050

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3997	.4835	.5973	.7110	.8248	.8817	.9244	.9388
PHI															
.000	1.2175	.1930	.0770	-.6780	-.5820	-.2170	-.0480	-.1180	-.1110	-.0190	-.1080	-.3270	.3190	.1170	.1270
45.000	1.2175	.2020	.0980	-.6670	-.5480	-.3150							.2410	.0870	.1370
90.000	1.2175	.2690	.0960	-.6660	-.4410	-.2780	-.3930	-.5420	-.5280	-.1450	-.2840	-.2870	.0310	.3760	.5170
135.000	1.2175	.4850	.2930	-.5920	-.1810	-.0940							.3190	.5910	.5980
180.000	1.2175	.6870	.4750	-.4630	-.0730	.1170	-.0130	-.1970	-.1840	.0890	-.1850	-.5090	.1770	.3760	.2720
225.000	1.2175	.6410	.3760	-.5800	-.0260	.1580	.1420						.0870	-.0320	-.1210
270.000	1.2175	.5280	.2810	-.6340	-.6970	-.5130	-.2760	-.1180			-.0770	-.2420	-.1680	-.1170	.0140
315.000	1.2175	.1870	-.1130	-.8170	-.7870	-.5330	-.2710						.1170	.1080	.2790

X/LS	.9675
PHI	
.000	.0770
45.000	.0980
90.000	.0960
135.000	.2480
180.000	.2750
225.000	-.0980
270.000	.0540
315.000	.2740

MACH (3) = 1.103 ALPHAT(2) = -8.010

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3997	.4835	.5973	.7110	.8248	.8817	.9244	.9388
PHI															
.000	1.2370	.2160	.1300	-.6910	-.5410	-.1870	-.0250	-.0880	-.1080	-.0170	-.0490	-.2160	.1180	.1650	.1970
45.000	1.2370	.2310	.1800	-.6490	-.5190	-.2580							.0790	.1710	.2980
90.000	1.2370	.3090	.1620	-.6410	-.4300	-.2430	-.1710	-.2380	-.2910	-.0810	-.1890	-.2890	.1110	.3690	.3800
135.000	1.2370	.4840	.3010	-.5920	-.2420	-.1790							.1980	.5770	.6780
180.000	1.2370	.6140	.4350	-.5130	-.0780	-.0190	.0791	-.1420	-.2930	.1090	-.1460	-.3410	.1890	.3640	.2980
225.000	1.2370	.5910	.5410	-.4260	-.2490	-.0280	.0350						.0820	.0930	-.0880
270.000	1.2370	.5260	.3880	-.4890	-.7620	-.5670	-.2190	-.1370			-.0790	-.2550	-.1130	-.0790	.1990
315.000	1.2370	.2270	.0130	-.7440	-.8040	-.5330	-.0960						.1440	.1140	.2110

X/LS	.9675
PHI	
.000	.1220
45.000	.1390
90.000	.1490
135.000	.2320
180.000	.2800

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AMES 11-FT 1A9 OPA + 53 + 79 SRM BOOSTER (REVISED)

MACH (3) = 1.103 ALPHAT(2) = -8.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.0440
270.000	.0910
315.000	.2340

MACH (3) = 1.102 ALPHAT(3) = -4.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2810	.2350	.1750	-.6410	-.5180	-.2130	.0270	-.0130	-.0700	-.0140	-.0480	-.1380	.1290	.1080	.2290
45.000	1.2810	.2740	.1970	-.6270	-.4900	-.2090							.1970	.2961	.3280
90.000	1.2810	.3380	.2180	-.6230	-.4390	-.1830	-.0310	-.1430	-.1910	.0080	-.1240	-.2370	.1910	.3090	.3970
135.000	1.2810	.4390	.3140	-.5950	-.3280	-.1470							.2770	.3290	.4180
180.000	1.2810	.5380	.3980	-.5420	-.1410	-.1080	.0390	-.1200	-.2320	.1210	-.1130	-.3380	.2780	.4820	.3980
225.000	1.2810	.5280	.4900	-.4820	-.3360	-.1090	.0640						.1130	.1030	-.0130
270.000	1.2810	.3920	.4800	-.4230	-.8010	-.3600	-.2630	-.1790			-.0890	-.2130	-.0420	.0130	.1180
315.000	1.2810	.2750	.1190	-.7050	-.7530	-.2600	-.0410						.1040	.1480	.1810

X/LS .9870

PHI	
.000	.1860
45.000	.1890
90.000	.2190
135.000	.2390
180.000	.2820
225.000	.0510
270.000	.1120
315.000	.1730

MACH (3) = 1.102 ALPHAT(4) = -1.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2910	.3210	.2300	-.6290	-.4740	-.1910	.0330	.0090	-.0540	-.0180	-.0290	-.1320	.1820	.2930	.3290
45.000	1.2910	.3210	.2430	-.6140	-.4550	-.1830							.2540	.3900	.3870
90.000	1.2910	.3700	.2670	-.6130	-.4190	-.1340	.0420	-.0780	-.1460	.0440	-.0470	-.2030	.2840	.4310	.4020
135.000	1.2910	.4320	.3040	-.6010	-.3600	-.1320							.2430	.4770	.4080
180.000	1.2910	.4900	.3530	-.5710	-.2430	-.1080	.0630	-.1010	-.2140	.1350	-.0650	-.3080	.2500	.4770	.2870
225.000	1.2910	.5150	.4300	-.5380	-.4430	-.0890	.0690						.1740	.1320	-.0030

MACH (3) = 1.102 ALPHAT(4) = -1.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.2910	.4620	.3380	-.3990	-.8180	-.4.00	-.2590	-.2150			-.0680	-.1980	.0060	.0680	.1400
315.000	1.2910	.3650	.2170	-.6640	-.6940	-.1950	.0010						.0590	.1120	.1870

X/LS	.9670
PHI	
.000	.2440
45.000	.2450
90.000	.2460
135.000	.2680
180.000	.2680
225.000	.0760
270.000	.1050
315.000	.2070

MACH (3) = 1.102 ALPHAT(5) = -.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2930	.3620	.2630	-.6180	-.4310	-.2380	.0350	.0280	-.0380	-.0280	-.0030	-.1070	.2570	.3800	.3730
45.000	1.2930	.3500	.2640	-.6090	-.4400	-.1880							.3090	.4290	.4000
90.000	1.2930	.3690	.2640	-.6080	-.4180	-.1150	.0890	-.0270	-.1150	.0570	.0230	-.1590	.3150	.4580	.3990
135.000	1.2930	.4080	.2900	-.6080	-.3980	-.1250							.2840	.4790	.3880
180.000	1.2930	.4390	.3140	-.5900	-.3370	-.1200	.0980	-.0780	-.1980	.1380	-.0200	-.2750	.2440	.4210	.2770
225.000	1.2930	.4710	.3690	-.5840	-.5310	-.0780	.0950						.1610	.1630	.0120
270.000	1.2930	.4800	.3800	-.3870	-.8220	-.1380	-.0520	-.1300			-.0950	-.1710	.0370	.1070	.1730
315.000	1.2930	.4150	.2910	-.6260	-.6300	-.1180	.0100						.1030	.1580	.2390

X/LS	.9670
PHI	
.000	.2810
45.000	.2830
90.000	.2820
135.000	.2810
180.000	.2810
225.000	.1720
270.000	.1470
315.000	.2500

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBHS02)

MACH (3) = 1.102 ALPHAT(6) = 1.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2940	.4190	.3080	-.5980	-.3800	-.2200	.0310	.0390	-.0260	-.0580	.0110	-.0870	.3150	.4490	.4310
45.000	1.2940	.3780	.2830	-.5980	-.4170	-.1840							.3510	.4380	.4170
90.000	1.2940	.3350	.2830	-.6060	-.4190	-.1160	.1080	.0030	-.1010	.0490	.0650	-.1220	.3510	.4280	.3790
135.000	1.2940	.3530	.2660	-.6120	-.4220	-.1210							.3090	.4910	.3880
180.000	1.2940	.3720	.2730	-.6090	-.4100	-.0840	.1080	-.0350	-.1500	.1300	.0980	-.2640	.2830	.3990	.2820
225.000	1.2940	.4050	.2920	-.6230	-.6110	-.0480	.0930						.1660	.1290	.0280
270.000	1.2940	.4500	.3630	-.3840	-.8230	-.0460	.0410	-.0260			-.0770	-.1280	.0810	.1410	.2150
315.000	1.2940	.4570	.3660	-.5860	-.5590	-.0700	.0160						.1900	.2320	.2830

X/LS	.9679
PHI	
.000	.3180
45.000	.3190
90.000	.3180
135.000	.2830
180.000	.2540
225.000	.1190
270.000	.1810
315.000	.3010

MACH (3) = 1.102 ALPHAT(7) = 3.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2830	.4780	.3410	-.5930	-.3130	-.1680	.0030	.0900	-.0130	-.0550	.0440	-.0880	.4340	.5370	.4800
45.000	1.2830	.4080	.2910	-.5920	-.3950	-.1910							.3580	.4780	.4280
90.000	1.2830	.3390	.2570	-.6180	-.4350	-.1540	.0890	.0130	-.1050	.0250	.1090	-.0770	.2740	.3320	.3140
135.000	1.2830	.3230	.2380	-.6320	-.4570	-.0750							.3120	.4180	.3130
180.000	1.2830	.3200	.2300	-.6320	-.4680	-.0450	.1030	-.0430	-.1130	.1200	.1110	-.2490	.3160	.3990	.2380
225.000	1.2830	.3440	.2170	-.6790	-.6430	-.0570	.0800						.1790	.1130	.0300
270.000	1.2830	.4280	.5350	-.4030	-.7540	-.1010	.0580	-.0140			-.0790	-.1120	.0980	.1700	.2300
315.000	1.2830	.5010	.4160	-.5570	-.4930	-.0480	-.0020						.2430	.3280	.3220

X/LS	.9679
PHI	
.000	.3480
45.000	.3540
90.000	.3200
135.000	.2280
180.000	.2040

MACH (3) = 1.102 ALPHAT(7) = 5.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.1300
270.000	.1820
315.000	.3230

MACH (3) = 1.102 ALPHAT(8) = 5.970

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4833	.5973	.7113	.8248	.8817	.9386	.9389
PHI															
.000	1.2690	.5340	.3800	-.5740	-.2480	-.0770	-.0250	.0350	-.0040	-.0580	.0490	-.0480	.5190	.9930	.4880
45.000	1.2690	.4200	.2950	-.5950	-.3660	-.1890							.4250	.9190	.4180
90.000	1.2690	.3130	.2190	-.6290	-.4450	-.2020	.0490	.0070	-.1240	-.0020	.1320	-.0890	.2850	.3240	.2580
135.000	1.2690	.2670	.1980	-.6450	-.4890	-.0610							.3550	.5360	.8310
180.000	1.2690	.2750	.1750	-.6480	-.5170	-.0620	.1000	-.0280	-.0850	.1240	.1470	-.2310	.6780	.5870	.2760
225.000	1.2690	.2740	.1120	-.7170	-.4960	-.1840	.0710						.2920	.1280	.0190
270.000	1.2690	.3790	.4720	-.4290	-.5240	-.2400	.0380	-.0030			-.0810	-.1080	.1190	.1990	.2050
315.000	1.2690	.5370	.4630	-.5140	-.4260	-.0370	-.0100						.5180	.3910	.3490

X/LS .9670

PHI	
.000	.3670
45.000	.3370
90.000	.3100
135.000	.1580
180.000	.1300
225.000	.0940
270.000	.1880
315.000	.3300

MACH (3) = 1.101 ALPHAT(9) = 7.960

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7113	.8248	.8817	.9386	.9389
PHI															
.000	1.2420	.5810	.4090	-.5540	-.1710	-.0270	-.0480	.0550	.0100	-.0580	.0770	-.0480	.6010	.9190	.5110
45.000	1.2420	.4200	.2910	-.5980	-.3370	-.1890							.4830	.9210	.4980
90.000	1.2420	.2590	.1920	-.6470	-.4540	-.2710	-.0270	-.0220	-.1570	-.0330	.1490	-.0890	.9180	.2990	.8190
135.000	1.2420	.2040	.1470	-.6630	-.5210	-.1080							.3260	.2980	.1190
180.000	1.2420	.2220	.1280	-.6630	-.4420	-.1090	.0990	-.0150	-.0830	.1290	.1680	-.2190	.6890	.1990	.1880
225.000	1.2420	.1980	-.0080	-.5830	-.5240	-.2820	.0330						.2480	.1480	.0680

ANES 11-93? IA9 CRA + 93 + T9 SRM BOOSTER (RBM502)

MACH (3) = 1.101 ALPHAT(9) = 7.940

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3097	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.2420	.5180	.3920	-.4800	- 4790	-.4380	.0140	.0050			-.0380	-.0920	.1270	.2070	.2470
315.000	1.2420	.9620	.3090	-.4870	-.3530	-.0030	.0070						.3780	.3840	.3720

X/LS	.9870
PHI	
.000	.3980
45.000	.3340
90.000	.2950
135.000	.0880
180.000	.0490
225.000	.0490
270.000	.2015
315.000	.3640

MACH (4) = 1.249 ALPHAT(1) = -0.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3097	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2990	.1230	.1110	-.5010	-.4440	-.3770	-.0780	-.1130	-.1240	-.0800	-.0280	-.2800	.1200	.0800	.0890
45.000	1.2990	.0470	.1090	-.4850	-.4260	-.2980							.0040	.0410	.0930
90.000	1.2990	.1740	.1420	-.4740	-.3660	-.2670	-.2990	-.4420	-.3540	-.2000	-.2290	-.2520	-.0090	.0770	.3250
135.000	1.2990	.4200	.3650	-.4140	-.2030	-.1430							.0180	.1990	.4910
180.000	1.2990	.8130	.5340	-.3360	.0340	-.0090	.1110	-.1180	-.2480	-.1120	-.0870	-.2980	.0030	.4180	.3270
225.000	1.2990	.8020	.6490	-.2580	-.1000	.0280	.1880						.0980	.0740	-.1180
270.000	1.2990	.3280	.4360	-.3040	-.5660	-.4280	-.3410	-.1150			-.0300	-.2410	-.1420	-.1220	.0020
315.000	1.2990	.1770	-.0730	-.6420	-.7170	-.5230	-.0800						.0510	.1270	.1740

X/LS	.9870
PHI	
.000	.1080
45.000	.1080
90.000	.1640
135.000	.2940
180.000	.3320
225.000	-.0810
270.000	.0380
315.000	.2730

MACH (4) = 1.249 ALPHAT(2) = -6.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3200	.1270	.1790	-.4750	-.4120	-.3870	-.0250	-.0550	-.1130	-.0700	.0020	-.2480	.1510	.1280	.1620
45.000	1.3200	.0770	.1820	-.4360	-.3850	-.2470							.0340	.1180	.2000
90.000	1.3200	.1770	.1980	-.4470	-.3340	-.2040	-.2130	-.1850	-.2610	-.1390	-.1320	-.2180	.0730	.2070	.3580
135.000	1.3200	.3670	.3770	-.4070	-.2310	-.1180							.0790	.2870	.4890
180.000	1.3200	.3150	.5020	-.3490	-.0490	-.0109	.1300	-.1300	-.2310	-.1010	-.0540	-.2410	.0830	.2840	.3810
225.000	1.3200	.5250	.6070	-.2930	-.1700	.0170	.1950						.0340	.0980	-.0730
270.000	1.3200	.5360	.5200	-.2690	-.5940	-.4720	-.2640	-.1440			-.0480	-.2180	-.1100	-.0850	.0440
315.000	1.3200	.1830	.0590	-.5750	-.6530	-.3850	-.1360						.0770	.1190	.2320

X/LS	.9679
PHI	
.000	.1620
45.000	.1800
90.000	.1850
135.000	.2730
180.000	.3410
225.000	.2040
270.000	.0850
315.000	.2540

MACH (4) = 1.249 ALPHAT(3) = -3.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3390	.1430	.2210	-.4570	-.3790	-.3590	.0040	-.0210	-.0860	-.0630	.0080	-.2100	.0790	.1370	.2080
45.000	1.3390	.0700	.2500	-.4360	-.3510	-.2180							.1170	.2420	.2790
90.000	1.3390	.1700	.2470	-.4290	-.3150	-.1570	-.1580	-.0880	-.1890	-.0930	-.0520	-.1850	.1410	.3190	.3780
135.000	1.3390	.3080	.3720	-.4070	-.2310	-.1000							.1200	.3430	.4740
180.000	1.3390	.4710	.4810	-.3690	-.1390	-.0420	.1390	-.0840	-.1890	-.0120	-.0240	-.2190	.0910	.3090	.5820
225.000	1.3390	.5140	.5590	-.3280	-.2590	-.0100	.2170						.0700	.1220	-.0310
270.000	1.3390	.4220	.5970	-.2380	-.6140	-.4300	-.1660	-.2000			-.0410	-.1990	-.0710	-.0830	.0890
315.000	1.3390	.3050	.1700	-.5170	-.5980	-.3150	-.0470						.0980	.0780	.1780

X/LS	.9679
PHI	
.000	.1790
45.000	.2330
90.000	.2800
135.000	.3000
180.000	.3420

AMES 11-93T IA9 ORA + S3 + T9 SRM BOOSTER (RSM50E)

MACH (4) = 1.249 ALPHAT(3) = -3.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.9870
PHI	
225.000	.2030
270.000	.1440
315.000	.2280

MACH (4) = 1.249 ALPHAT(4) = -1.930

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0867	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.90	.9368
PHI															
.000	1.3450	.1810	.2710	-.4410	-.3500	-.3390	.0140	-.0090	-.0320	-.0490	.0240	-.1370	.1290	.2340	.3110
													.1990	.3310	.3510
45.000	1.3450	.1110	.2900	-.4210	-.3270	-.2030							.2110	.4040	.4070
90.000	1.3450	.1650	.2920	-.4160	-.3010	-.1400	-.1440	.0010	-.1230	-.0850	.0240	-.1120	.1970	.4040	.4570
135.000	1.3450	.2160	.3720	-.4070	-.2650	-.1010							.1240	.3230	.3810
180.000	1.3450	.3060	.4230	-.3840	-.2120	-.0730	.1060	-.0380	-.1090	.1220	.0100	-.2280	.0980	.1340	-.0050
225.000	1.3450	.4920	.5070	-.3810	-.1440	-.0900	.1790						-.0180	.0080	.1210
270.000	1.3450	.4890	.6410	-.2170	-.0290	-.2970	-.0820	-.2780			-.0850	-.1810	.0440	.1090	.1900
315.000	1.3450	.3990	.2750	-.4720	-.3450	-.2590	.0190								

X/LS	.9870
PHI	
.000	.2780
45.000	.3250
90.000	.3430
135.000	.3430
180.000	.3440
225.000	.2180
270.000	.1280
315.000	.2090

MACH (4) = 1.248 ALPHAT(5) = .040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0867	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9368
PHI															
.000	1.3490	.1900	.3200	-.4240	-.3200	-.2930	.0090	-.0090	-.0150	-.0370	.0340	-.1190	.1850	.3070	.3900
													.2350	.3580	.3820
45.000	1.3490	.1530	.3170	-.4090	-.3080	-.1930							.2350	.3980	.3970
90.000	1.3490	.1720	.3170	-.4090	-.2920	-.1380	-.0850	.0420	-.0850	-.0680	.0580	-.0730	.1870	.4480	.4320
135.000	1.3490	.1840	.3470	-.4090	-.2820	-.1110							.1260	.3830	.3480
180.000	1.3490	.1990	.3720	-.4050	-.2690	-.0980	.0850	-.0090	-.1510	.1290	.0360	-.2280	.1240	.1830	.0130
225.000	1.3490	.4410	.4330	-.4090	-.4170	-.5680	.0770								

MACH (4) = 1.248 ALPHAT(5) = .040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3490	.4770	.6600	-.2540	-.6280	-.1520	.0170	-.1270			-.0700	-.1730	.0090	.0390	.1480
315.000	1.3490	.4320	.3630	-.4320	-.4240	-.1930	.0150						.0700	.1090	.2110

X/LS .9670

PHI	
.000	.3280
45.000	.3440
90.000	.3440
135.000	.3440
180.000	.3440
225.000	.2170
270.000	.1500
315.000	.2350

MACH (4) = 1.244 ALPHAT(6) = 2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3470	.3130	.3630	-.4110	-.2890	-.2530	-.0070	-.0100	.0000	-.0250	.0490	-.0680	.2420	.3720	.4080
45.000	1.3470	.2030	.3370	-.4050	-.2970	-.1910							.2800	.3700	.3480
90.000	1.3470	.1870	.3370	-.4110	-.2980	-.1590	-.0410	.0630	-.0530	-.0610	.0920	-.0320	.2690	.3750	.3740
135.000	1.3470	.1230	.3180	-.4190	-.3020	-.1450							.1970	.4240	.4320
180.000	1.3470	.2510	.3130	-.4200	-.3180	-.1330	.0250	.0250	-.1270	.1260	.0660	-.2120	.1470	.3890	.3230
225.000	1.3470	.3730	.3480	-.4430	-.4890	-.0480	.0290						.1280	.1810	.0990
270.000	1.3470	.4370	.6540	-.2060	-.6330	-.1580	.0270	-.0240			-.0670	-.1500	.0320	.0640	.1870
315.000	1.3470	.4380	.4320	-.3910	-.4300	-.2300	.0120						.1280	.1770	.2490

X/LS .9670

PHI	
.000	.3670
45.000	.3820
90.000	.3840
135.000	.3350
180.000	.3210
225.000	.2030
270.000	.1800
315.000	.2900

AMES 11-707 IA9 OEA + 53 + 79 SRM BOOSTER (RBM302)

MACH (4) = 1.245 ALPHAT(7) = 5.970

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3410	.4030	.4020	-.3970	-.2550	-.2040	-.0220	-.0180	.0370	-.0150	.0450	-.0240	.3400	.4820	.4480
45.000	1.3410	.2650	.3500	-.4060	-.2870	-.1880							.2840	.3880	.4150
90.000	1.3410	.1640	.3190	-.4210	-.3100	-.1880	-.0270	.0830	-.0450	-.0550	.1130	-.0200	.2470	.3140	.3190
135.000	1.3410	.0880	.2920	-.4310	-.3290	-.1780							.2660	.4400	.3510
180.000	1.3410	.1970	.2890	-.4400	-.3640	-.1370	.0030	.0500	-.1080	.0920	.0960	-.1780	.1440	.4210	.2990
225.000	1.3410	.2[illegible]	.2650	-.4850	-.5430	-.1640	.0210						.1300	.1870	.0990
270.000	1.3410	.4090	.6320	-.2190	-.6090	-.2190	.0010	.0070			-.0240	-.1380	.0600	.0980	.1870
315.000	1.3410	.4750	.4930	-.3690	-.3760	-.2260	.0040						.2060	.2940	.2990

X/LS	.9679
PHI	
.000	.3880
45.000	.4110
90.000	.3820
135.000	.2800
180.000	.2920
225.000	.1950
270.000	.1660
315.000	.3080

MACH (4) = 1.245 ALPHAT(8) = 5.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3250	.4830	.4410	-.3810	-.2120	-.1540	-.0390	-.0230	.0190	-.0140	.0600	.0110	.4070	.5350	.4950
45.000	1.3250	.3220	.3530	-.4050	-.2780	-.1850							.3010	.4200	.4330
90.000	1.3250	.1880	.2930	-.4340	-.3230	-.2130	-.0550	.0380	-.0490	-.0680	.1370	-.0140	.2880	.2970	.2820
135.000	1.3250	.0540	.2520	-.4470	-.3520	-.2340							.3490	.3790	.2980
180.000	1.3250	.1450	.2200	-.4470	-.3920	-.1760	.0070	.0630	-.0840	.0930	.1550	-.1750	.1470	.5070	.2540
225.000	1.3250	.2140	.1630	-.5300	-.4710	-.3240	.0050						.1520	.1760	.0590
270.000	1.3250	.3440	.5810	-.2410	-.5440	-.3300	-.0640	.0160			.0110	-.1240	.0810	.1140	.1900
315.000	1.3250	.9020	.5440	-.3370	-.3180	-.1210	.0000						.2510	.2910	.2540

X/LS	.9679
PHI	
.000	.4190
45.000	.4470
90.000	.3910
135.000	.2470
180.000	.2500

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS02)

MACH (4) = 1.245 ALPHAT(8) = 5.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.9670
PHI	
225.000	.1410
270.000	.1990
315.000	.3190

MACH (4) = 1.247 ALPHAT(9) = 7.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3090	.5330	.4870	-.3680	-.1480	-.1040	-.0380	-.0400	.0060	-.0110	.0360	.0380	.4740	.3900	.5250
45.000	1.3090	.3540	.3480	-.4080	-.2670	-.1820							.3250	.4640	.4370
90.000	1.3090	.1480	.2370	-.4510	-.3410	-.2560	-.1760	-.0160	-.0690	-.0900	.1510	-.0130	.2780	.2950	.2590
135.000	1.3090	.0190	.1990	-.4640	-.3810	-.2680							.3430	.2980	.2090
180.000	1.3090	.1110	.1680	-.4650	-.4180	-.2730	.0170	.0710	-.0570	.1040	.2150	-.1390	.1927	.5170	.2430
225.000	1.3090	.1310	.0500	-.5790	-.4990	-.3950	-.0370						.1920	.1970	.0630
270.000	1.3090	.2860	.5090	-.2690	-.5680	-.3940	-.0660	.0350			.0240	-.1040	.0790	.1270	.2050
315.000	1.3090	.5340	.5900	-.3070	-.2530	-.0700	.0070						.3090	.3180	.2910

X/LS	.9670
PHI	
.000	.4440
45.000	.4710
90.000	.3890
135.000	.2230
180.000	.1580
225.000	.1580
270.000	.2070
315.000	.3440

MACH (5) = 1.401 ALPHAT(1) = -8.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3540	-.0290	.1310	-.3840	-.3210	-.3390	-.1180	-.0290	-.0770	-.0640	-.0080	-.2170	.1080	.0650	-.0310
45.000	1.3540	.0240	.1490	-.3530	-.3060	-.2220							.0420	.0170	.0930
90.000	1.3540	.1270	.1470	-.3525	-.2830	-.2000	-.2470	-.3230	-.2650	-.1980	-.2090	-.1590	.0090	.1180	.2810
135.000	1.3540	.2270	.4000	-.2780	-.1850	-.0740							-.0080	.1880	.5040
180.000	1.3540	.3770	.5850	-.2040	.0070	.0690	.1070	-.0010	-.1720	-.1170	-.0480	-.3020	-.0150	.2890	.4190
225.000	1.3540	.3080	.7140	-.1910	-.0930	.1320	.1780						-.0240	.1410	-.0710

AMES 11-707 IA9 CRA + S3 + T9 SRM BOOSTER (RBM3DP)

MACH (9) = 1.401 ALPHAT(1) = -6.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3540	.1220	.5750	-.1430	-.4350	-.2810	-.0380	-.3180			.0110	-.2410	-.1390	-.1390	-.0190
315.000	1.3540	-.0330	.0110	-.4920	-.6150	-.4700	-.1090						.0010	.0990	.0080

X/LS	.9879
PHI	
.000	.1520
45.000	.0320
90.000	.0750
135.000	.2250
180.000	.3470
225.000	.2460
270.000	.0600
315.000	.3250

MACH (9) = 1.398 ALPHAT(2) = -5.970

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3750	.0080	.1770	-.3480	-.3040	-.3140	-.0840	-.0980	-.0880	-.0720	.0110	-.1750	.1110	.0720	.0790
45.000	1.3750	.0810	.1840	-.3350	-.2770	-.1920							.0090	.0740	.1520
90.000	1.3750	.1530	.1830	-.3260	-.2550	-.1480	-.2000	-.2380	-.1940	-.1620	-.1130	-.1480	.0810	.2220	.3180
135.000	1.3750	.2570	.3830	-.2780	-.1810	-.0810							.0280	.2810	.4800
180.000	1.3750	.3040	.5350	-.2220	-.0630	.0460	.0420	.0080	-.1570	-.1080	-.0280	-.2080	.0150	.3000	.4210
225.000	1.3750	.2430	.6580	-.1760	-.1220	.0640	.0480						.0060	.1790	-.0280
270.000	1.3750	.0870	.6420	-.1150	-.4550	-.3020	-.0800	-.3280			.0280	-.2180	-.1080	-.0980	.0330
315.000	1.3750	-.0080	.1290	-.4580	-.5420	-.4120	-.1580						.0620	.1380	.0330

X/LS	.9879
PHI	
.000	.1090
45.000	.1150
90.000	.1550
135.000	.2580
180.000	.3550
225.000	.2500
270.000	.1000
315.000	.3230

ANE3 11-707 IA9 CBA + S3 + T9 SRM BOOSTER (RBNS02)

MACH (9) = 1.398 ALPHAT(9) = -3.980

SECTION : 1:SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3880	.0420	.2280	-.3380	-.2780	-.2920	-.0230	.0140	-.0810	-.0680	-.0080	-.1750	.0950	.1290	.1930
45.000	1.3880	.1010	.2230	-.3210	-.2550	-.1730							.0860	.2080	.2280
90.000	1.3880	.1740	.2340	-.3110	-.2380	-.1200	-.1420	-.1230	-.1240	-.1250	-.0310	-.0990	.1120	.2820	.3650
135.000	1.3880	.2320	.3840	-.2840	-.1930	-.0570							.0340	.3420	.4820
180.000	1.3880	.2410	.4780	-.2440	-.1180	.0140	.0780	.0220	-.1420	-.0770	.0250	-.2480	.0140	.3810	.4230
225.000	1.3880	.1920	.5960	-.2090	-.1980	.0180	.0540						.0230	.2450	.2990
270.000	1.3880	.0990	.6320	-.0920	-.4720	-.3420	-.0500	-.3170			.0180	-.1940	-.0680	-.0830	.0180
315.000	1.3880	.0310	.2310	-.3820	-.4860	-.3260	-.0500						.0900	.1340	.0750

X/LS	.9879
PHI	
.000	.0810
45.000	.1540
90.000	.2140
135.000	.2880
180.000	.3580
225.000	.2550
270.000	.1530
315.000	.2420

MACH (9) = 1.398 ALPHAT(4) = -1.990

SECTION : 1:SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3980	.0830	.2780	-.3170	-.2840	-.2750	.0130	.0230	-.0330	-.0320	.0110	-.1110	.0920	.1870	.2080
45.000	1.3980	.1500	.2590	-.3150	-.2390	-.1820							.1050	.2770	.2470
90.000	1.3980	.1810	.2540	-.3080	-.2230	-.1080	-.0970	.0040	-.0870	-.0870	.0300	-.0410	.1870	.2970	.3380
135.000	1.3980	.2020	.3270	-.2930	-.2040	-.0580							.0480	.2340	.4340
180.000	1.3980	.1830	.4070	-.2850	-.1800	-.0300	.0280	.0350	-.0950	-.0870	.0820	-.2230	.0180	.3500	.4230
225.000	1.3980	.1500	.5220	-.2470	-.2700	-.0500	.0330						.0500	.2810	.2740
270.000	1.3980	.1020	.7220	-.0770	-.4790	-.2830	-.2480	-.2780			-.0220	-.1850	-.0780	-.0260	.0890
315.000	1.3980	.0720	.5280	-.3400	-.4270	-.3300	.0120						.0490	.0890	.1170

X/LS	.9879
PHI	
.000	.1800
45.000	.2220
90.000	.2890
135.000	.3170
180.000	.3390

AMES 11-70? IA9 ORA + S3 + T9 SRM BOOSTER (RB=0.02)

MACH (5) = 1.398 ALPHAT(4) = -1.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.2580
270.000	.1890
315.000	.2140

MACH (5) = 1.398 ALPHAT(5) = .040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0567	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.4040	.1270	.3240	-.2970	-.2330	-.2690	-.0070	.0250	-.0180	-.0240	.0130	-.1020	.1480	.2450	.2730
45.000	1.4040	.1630	.2790	-.2970	-.2230	-.1500							.2090	.3150	.2950
90.000	1.4040	.1840	.2720	-.3020	-.2190	-.1270	-.0650	.0580	-.0260	-.0530	.0750	.0040	.2250	.3190	.3030
135.000	1.4040	.1730	.2990	-.2980	-.2180	-.0700							.0680	.1620	.4410
180.000	1.4040	.1340	.3520	-.2850	-.2170	-.0520	-.1040	.0510	-.0470	-.0670	.1100	-.1340	.0520	.3480	.4340
225.000	1.4040	.1150	.4450	-.2860	-.3390	-.1900	.0500						.0790	.2920	.1340
270.000	1.4040	.1080	.7330	-.0690	-.4770	-.1700	-.0820	-.0940			-.0340	-.1650	.0080	.0030	.1340
315.000	1.4040	.1120	.4130	-.2970	-.3670	-.3830	.0090						.0510	.0480	.1530

X/LS .9870

PHI	
.000	.1790
45.000	.2780
90.000	.2890
135.000	.3040
180.000	.3450
225.000	.2840
270.000	.1880
315.000	.2320

MACH (5) = 1.393 ALPHAT(6) = 2.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1391	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.4010	.1770	.3780	-.2830	-.2100	-.2220	.0000	.0200	-.0070	-.0080	.0130	-.0800	.1990	.3080	.3400
45.000	1.4010	.1940	.3090	-.2950	-.2210	-.1430							.2450	.3270	.3280
90.000	1.4010	.1820	.2750	-.2930	-.2190	-.1280	-.0590	.0600	-.0100	-.0440	.1080	.0290	.2800	.3350	.2750
135.000	1.4010	.1450	.2920	-.3040	-.2220	-.1450							.1350	.1970	.4080
180.000	1.4010	.0900	.3290	-.3000	-.2430	-.1440	-.0040	.0300	-.0390	-.0650	.1780	-.1680	.0650	.3350	.4070
225.000	1.4010	.0800	.3980	-.3135	-.3870	-.0990	.0720						.0970	.2710	.1080

AMES 11-707 IA9 OP4 + S3 + T9 SRM BOOSTER (RBNS02)

MACH (5) = 1.393 ALPHAT(6) = 2.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.4010	.1920	.7380	-.0720	-.4770	-.2840	.0310	.0100			-.0220	-.1330	.0190	.0290	.1080
315.000	1.4010	.1490	.4900	-.2650	-.3140	-.3370	.0440						.0940	.1430	.1410

X/LS	.9670
PHI	
.000	.2240
45.000	.3230
90.000	.3030
135.000	.2860
180.000	.3050
225.000	.2420
270.000	.1880
315.000	.2870

MACH (5) = 1.394 ALPHAT(7) = 3.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3930	.2300	.4340	-.2710	-.1820	-.1890	.0000	.0070	-.0050	-.0030	.0190	-.0440	.2580	.3870	.3870
45.000	1.3930	.2170	.3360	-.2910	-.2170	-.1450							.2540	.3430	.3520
90.000	1.3930	.1720	.2460	-.3130	-.2330	-.1420	-.0680	.0240	-.0030	-.0440	.1140	.0330	.3030	.2900	.2590
135.000	1.3930	.1120	.2480	-.3170	-.2320	-.1610							.1920	.2290	.3820
180.000	1.3930	.0550	.2790	-.3190	-.2640	-.2590	-.0040	.0730	-.0230	-.0440	.1450	-.1510	.0720	.3390	.3780
225.000	1.3930	.0370	.3070	-.3560	-.4420	-.2310	.0240						.0910	.2520	.0920
270.000	1.3930	.0890	.7080	-.0850	-.4790	-.2840	.0350	.0320			-.0050	-.1470	.0220	.0570	.0840
315.000	1.3930	.1850	.5560	-.2320	-.2640	-.2820	.0460						.1470	.2080	.1580

X/LS	.9670
PHI	
.000	.2510
45.000	.3580
90.000	.3300
135.000	.2570
180.000	.2700
225.000	.2200
270.000	.2010
315.000	.3050

MACH (5) = 1.398 ALPHAT(8) = 6.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3810	.2940	.4830	-.2500	-.1500	-.1480	-.0050	-.0010	-.0080	.0030	.0250	-.0210	.3280	.4620	.4600
45.000	1.3810	.2450	.3590	-.2860	-.2100	-.1500							.2860	.3720	.3820
90.000	1.3810	.1520	.2210	-.3220	-.2560	-.1660	-.1380	-.0120	-.0010	-.0450	.1180	.0390	.2900	.2640	.2510
135.000	1.3810	.0770	.1950	-.3360	-.2550	-.1820							.2750	.2260	.3100
180.000	1.3810	.0130	.2260	-.3300	-.2820	-.2090	-.0130	.0970	-.0080	-.0040	.1550	-.1370	.1020	.3360	.3320
225.000	1.3810	-.0070	.1950	-.4030	-.4940	-.3040	.0030						.1030	.2330	.0830
270.000	1.3810	.0720	.6620	-.1060	-.4760	-.3380	-.0400	.0320			.0080	-.1110	.0680	.0930	.0890
315.000	1.3810	.2260	.6110	-.2050	-.2130	-.2190	.0550						.1910	.2530	.1830

X/LS	.9679
PHI	
.000	.3030
45.000	.4240
90.000	.3580
135.000	.2570
180.000	.2180
225.000	.1930
270.000	.2370
3 9.000	.3580

MACH (5) = 1.391 ALPHAT(9) = 7.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3550	.3360	.5260	-.2390	-.1150	-.1090	-.0040	-.0060	-.0200	-.0060	.0280	.0130	.3770	.5250	.5000
45.000	1.3550	.2720	.3670	-.2880	-.2060	-.1580							.2950	.3880	.4090
90.000	1.3550	.1160	.1890	-.3450	-.2850	-.2250	-.1980	-.0670	-.0180	-.0590	.1230	.0340	.3050	.2850	.2280
135.000	1.3550	.0320	.1460	-.3630	-.2930	-.2150							.2720	.1850	.1840
180.000	1.3550	-.0250	.1520	-.3520	-.3060	-.2080	-.0200	.0870	.0060	.0560	.1500	-.0870	.1080	.2780	.3050
225.000	1.3550	-.0500	.0470	-.4720	-.5330	-.3600	-.0200						.1180	.2290	.0950
270.000	1.3550	.0740	.3970	-.1310	-.4710	-.3850	-.0930	.0160			.0190	-.1010	.0890	.1090	.0940
315.000	1.3550	.2770	.6520	-.1840	-.1650	-.1450	.0490						.2000	.2860	.1930

X/LS	.9879
PHI	
.000	.3250
45.000	.4340
90.000	.3850
135.000	.2090
180.000	.1370

MACH (3) = 1.391 ALPHAT(9) = 7.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.1400
270.000	.2260
315.000	.3340

AMES 11-707 IA9 C2A + S5 + T9 SRM BOOSTER (RBM503) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .900
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .399 BETAT (1) = -8.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9480	-.0740	-.4880	-.8680	-.2770	-.1840	-.1820	-.1350	-.1410	-.1850	-.2480	-.1050	.0820	-.0120	-.1330
45.000	.9480	-.0610	-.4160	-.7330	-.3600	-.2850							.1190	-.0080	-.0870
90.000	.9480	.1120	-.2370	-.5010	-.2600	-.2110	-.2200	-.2220	-.2550	-.2690	-.2960	-.0790	.3680	.2740	.1670
135.000	.9480	.3660	.0060	-.2870	-.0890	-.0480							.5470	.4240	.2920
180.000	.9480	.4680	.0710	-.2050	-.0140	.0320	.0230	.0270	.0520	-.0180	-.2060	-.0160	.4350	.3010	.1340
225.000	.9480	.3470	.1000	-.2750	-.0670	.0130	.0230						.2460	.1180	.0290
270.000	.9480	.0290	-.3670	-1.3560	-1.0550	-.6100	-.2420	-.1760			-.3180	-.1210	.0210	.0100	.0520
315.000	.9480	-.1010	-.7000	-1.1110	-.4110	-.2830	-.0660						.0610	.0020	-.0500

X/LS	.9670
PHI	
.000	-.2200
45.000	-.2150
90.000	-.2040
135.000	.0430
180.000	.1080
225.000	-.0180
270.000	.0120
315.000	-.1680

MACH (1) = .398 BETAT (2) = -8.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9480	-.0810	-.4890	-.8790	-.2670	-.1720	-.1730	-.1350	-.1380	-.1890	-.2410	-.0980	.0810	.0060	-.0970
45.000	.9480	-.0740	-.4310	-.7610	-.3470	-.2650							.1420	.0200	-.0850
90.000	.9480	.0700	-.2430	-.5540	-.2840	-.2290	-.2350	-.2400	-.2600	-.2710	-.3020	-.0840	.3490	.2550	.1440
135.000	.9480	.3240	-.0420	-.3300	-.1270	-.0840							.5180	.3980	.2840
180.000	.9480	.4650	.0670	-.2470	-.0380	.0080	-.0020	.0000	.0310	-.0430	-.2140	-.0160	.4370	.3090	.1340
225.000	.9480	.3830	.0970	-.2910	-.0850	-.0050	.0080						.2420	.1280	.0280
270.000	.9480	.0200	-.3720	-1.3910	-1.0860	-.6260	-.2450	-.1630			-.2870	-.1060	.0130	.0320	.0850
315.000	.9480	-.1120	-.7130	-1.1350	-.4340	-.2980	-.0770						.0740	.0390	-.0120

X/LS	.9670

MACH (1) = .398 BETAT (2) = -6.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	-.1920
45.000	-.1770
90.000	-.1760
135.000	.0700
180.000	.0720
225.000	-.0260
270.000	.0260
315.000	-.1480

MACH (1) = .398 BETAT (3) = -4.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	.9500	-.0890	-.4780	-.9040	-.2600	-.1600	-.1500	-.1340	-.1450	-.1860	-.2520	-.0960	.0760	.0360	-.0540
45.000	.9500	-.0800	-.4220	-.7970	-.3250	-.2470							.1630	.0480	-.0440
90.000	.9500	.0340	-.2770	-.6020	-.2970	-.2420	-.2400	-.2430	-.2760	-.2790	-.3010	-.0970	.3310	.2430	.1190
135.000	.9500	.2810	-.0930	-.3730	-.1670	-.1250							.4880	.3770	.2350
180.000	.9500	.4580	.0390	-.2610	-.0680	-.0190	-.0210	-.0220	.0020	-.0770	-.2190	-.0150	.4340	.3140	.1360
225.000	.9500	.3820	.1060	-.3080	-.1030	-.0180	-.0010						.2590	.1450	.0320
270.000	.9500	.0240	-.3650	-1.4000	-1.1170	-.6400	-.2540	-.1610			-.2720	-.1470	.0580	.1350	.1530
315.000	.9500	-.1260	-.7130	-1.1500	-.4400	-.3020	-.0930						.1530	.1040	.0230

X/LS .9670

PHI	
.000	-.1400
45.000	-.1410
90.000	-.1410
135.000	.0600
180.000	.0590
225.000	-.0480
270.000	.0520
315.000	-.1070

AMES 11-7X7 IA9 O2A + S3 + T9 SRM BOOSTER (RBM303)

MACH (1) = .598 BETAT (4) = -2.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	.9430	-.0890	-.4680	-.8800	-.2500	-.1350	-.1280	-.1180	-.1440	-.2070	-.2480	-.0750	.0870	.0910	.0110
45.000	.9430	-.0810	-.4210	-.8000	-.3010	-.2120							.1950	.0900	-.0090
90.000	.9430	-.0020	-.3170	-.6240	-.3070	-.2470	-.2420	-.2440	-.2730	-.2780	-.2970	-.0690	.3310	.2330	.1110
135.000	.9430	.2440	-.1320	-.4270	-.2060	-.1540							.4670	.3550	.2170
180.000	.9430	.4530	.0340	-.2630	-.0850	-.0410	-.0380	-.0420	-.0150	-.1020	-.2270	-.0100	.4440	.3220	.1500
225.000	.9430	.4010	.1250	-.3210	-.1030	-.0260	-.0130						.2940	.1640	.0600
270.000	.9430	.0370	-.3620	-1.4200	-1.1230	-.6480	-.2640	-.1520			-.2750	-.1450	.1190	.2140	.1820
315.000	.9430	-.1280	-.6980	-1.1650	-.4220	-.3020	-.1100						.2540	.1400	.0650

X/LS	.9870
PHI	
.000	-.0930
45.000	-.0540
90.000	-.0950
135.000	.0490
180.000	.0510
225.000	-.0470
270.000	.0690
315.000	-.0490

MACH (1) = .598 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	.9390	-.0980	-.4650	-.8570	-.2410	-.1260	-.1060	-.0960	-.1210	-.2080	-.2990	-.0470	.1210	.1700	.0840
45.000	.9390	-.0840	-.4260	-.8060	-.2810	-.1830							.2180	.1300	.0210
90.000	.9390	-.0340	-.3610	-.6640	-.3170	-.2530	-.2390	-.2410	-.2640	-.2710	-.2860	-.0780	.3270	.2300	.0980
135.000	.9390	.1960	-.1740	-.4910	-.2410	-.1960							.4530	.3380	.1940
180.000	.9390	.4480	.0220	-.2890	-.1110	-.0660	-.0670	-.0680	-.0380	-.1280	-.2490	-.0070	.4650	.3360	.1550
225.000	.9390	.4220	.1400	-.3190	-.1070	-.0340	-.0220						.3810	.2630	.0880
270.000	.9390	.0430	-.3650	-1.5260	-1.1370	-.6660	-.2800	-.1580			-.3010	-.0670	.2510	.3060	.1990
315.000	.9390	-.1300	-.7010	-1.1680	-.4170	-.3090	-.1270						.3310	.2200	.1380

X/LS	.9870
PHI	
.000	-.0550
45.000	-.0370
90.000	-.0580
135.000	.0310
180.000	.0310

MACH (1) = .598 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0320
270.000	.0440
315.000	-.0110

MACH (1) = .598 BETAT (6) = 2.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9350	-.1030	-.4600	-.8650	-.2340	-.1180	-.0830	-.0700	-.0810	-.1080	-.1680	-.0580	.2540	.1870	.0810
45.000	.9350	-.0870	-.4250	-.7950	-.2580	-.1570							.1700	.1580	.0460
90.000	.9350	-.0630	-.3770	-.6900	-.3180	-.2480	-.2290	-.2270	-.2400	-.2550	-.2500	-.0470	.3250	.2190	.0830
135.000	.9350	.1480	-.2280	-.5350	-.2750	-.2310							.4290	.3100	.1680
180.000	.9350	.4320	.0030	-.3170	-.1430	-.0910	-.0930	-.0890	-.0600	-.1530	-.2530	-.0090	.4590	.3140	.1440
225.000	.9350	.4440	.1510	-.3220	-.1170	-.0460	-.0270						.3780	.2630	.0620
270.000	.9350	.0590	-.3630	-1.5550	-1.1430	-.6810	-.2970	-.1840			-.2980	-.0480	.2750	.2790	.1560
315.000	.9350	-.1420	-.6870	-1.1610	-.4060	-.3040	-.1590						.4450	.3740	.2720

X/LS .9670

PHI	
.000	-.0720
45.000	-.0700
90.000	-.0700
135.000	-.0010
180.000	.0160
225.000	-.0370
270.000	-.0110
315.000	.1180

MACH (1) = .598 BETAT (7) = 4.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9320	-.1070	-.4470	-.8390	-.2230	-.1010	-.0860	-.0420	-.0620	-.0970	-.1580	.0930	.5050	.3730	.2240
45.000	.9320	-.0860	-.4180	-.7820	-.2340	-.1290							.2430	.1780	.0530
90.000	.9320	-.0800	-.4170	-.7120	-.3120	-.2420	-.2120	-.1940	-.1920	-.1930	-.1890	.0180	.2780	.1990	.0870
135.000	.9320	.0970	-.2860	-.5730	-.3100	-.2620							.3940	.2870	.1350
180.000	.9320	.4210	-.0030	-.3390	-.1800	-.1150	-.1170	-.1000	-.0650	-.1800	-.2910	-.0110	.4530	.2840	.1180
225.000	.9320	.4880	.1720	-.3060	-.1100	-.0440	-.0280						.4000	.2150	.0020

AMES 11-7ft IA9 C2A + S3 + T9 SRM BOOSTER (RBNS03)

MACH (1) = .598 BETAT (7) = 4.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	.9320	.0740	-.3530	-1.5280	-1.1310	-.7000	-.3150	-.2110			-.2850	-.0160	.3320	.2470	.0900
315.000	.9320	-.1410	-.6600	-1.1570	-.3830	-.2940	-.1760						.4660	.3730	.2710

X/LS	.9670
PHI	
.000	.0770
45.000	-.0430
90.000	-.0460
135.000	-.0030
180.000	-.0070
225.000	-.0630
270.000	-.0820
315.000	.1170

MACH (1) = .998 BETAT (8) = 6.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9210	-.1100	-.4400	-.8240	-.2240	-.0940	-.0640	-.0340	-.0480	-.1000	-.1560	.0570	.4790	.3870	.2270
45.000	.9210	-.0970	-.4190	-.7690	-.2160	-.1120							.3270	.1310	-.0270
90.000	.9210	-.1180	-.4190	-.7370	-.3110	-.2330	-.1870	-.1570	-.1340	-.1490	-.1610	.0300	.2220	.1940	.0510
135.000	.9210	.0500	-.3170	-.6320	-.3480	-.3040							.3570	.2310	.1080
180.000	.9210	.4020	-.0290	-.3860	-.1950	-.1560	-.1390	-.1280	-.0900	-.1780	-.2540	-.0510	.4280	.2540	.0930
225.000	.9210	.4780	.1750	-.3070	-.1180	-.0520	-.0320						.3620	.1220	-.0390
270.000	.9210	.0920	-.3430	-1.5540	-1.1020	-.6960	-.3340	-.2230			-.2850	.0570	.2860	.1780	.0210
315.000	.9210	-.1400	-.6570	-1.1510	-.3680	-.2910	-.1860						.3950	.3780	.3140

X/LS	.9670
PHI	
.000	.0520
45.000	-.1870
90.000	-.1870
135.000	-.0820
180.000	-.0360
225.000	-.0810
270.000	-.1320
315.000	.1710

AMES 11-79? IA9 OEA + S3 + T9 SRM BOOSTER (RBMS03)

MACH (1) = .599 BETAT (9) = 8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9080	-.1160	-.4320	-.8100	-.2140	-.0910	-.0570	-.0460	-.0620	-.1050	-.1550	.0990	.4980	.4010	.2390
													.3620	.1780	.0150
45.000	.9080	-.0990	-.4130	-.7410	-.1960	-.0940									
90.000	.9080	-.1390	-.4190	-.7530	-.3050	-.2190	-.1660	-.1450	-.1230	-.1360	-.1540	.0140	.2350	.1770	.0350
													.2560	.2140	.0800
135.000	.9080	.0080	-.3560	-.6580	-.3810	-.3300									
180.000	.9080	.3890	-.0410	-.3920	-.2200	-.1810	-.1580	-.1410	-.0980	-.1810	-.2420	-.0970	.3780	.2000	.0730
													.2180	.0190	-.0640
225.000	.9080	.5010	.1890	-.2910	-.1170	-.0510	-.0300								
270.000	.9080	.1160	-.3400	-1.5530	-1.0630	-.6970	-.3270	-.2010			-.2920	.0120	.2000	.0430	-.1030
													.4190	.4030	.3480
315.000	.9080	-.1440	-.6180	-1.0980	-.3570	-.2850	-.1500								

X/LS	.9670
PHI	
.000	.0620
45.000	-.0970
90.000	-.0960
135.000	-.0790
180.000	-.0460
225.000	-.0480
270.000	-.2170
315.000	.1920

MACH (2) = .901 BETAT (1) = -8.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1100	.0770	-.1700	-1.1480	-.5350	-.3200	-.1640	-.1330	-.1030	-.1560	-.2480	-.1440	.0890	-.0200	-.1170
													.1380	.0320	-.0930
45.000	1.1100	.0810	-.1280	-1.1180	-.5730	-.3310									
90.000	1.1100	.2530	.0220	-1.0480	-.2990	-.2440	-.2780	-.2200	-.2020	-.2310	-.3720	-.0800	.4060	.3420	.2390
													.5940	.5110	.3720
135.000	1.1100	.4730	.1990	-.9430	-.0480	-.0670									
180.000	1.1100	.5680	.2640	-.9160	.0480	.0280	-.0290	.0180	.1060	.1010	-.1500	.0080	.4820	.3850	.1930
													.2030	.0360	-.0970
225.000	1.1100	.4730	.3280	-.8620	.0210	-.0050	-.0300								
270.000	1.1100	.2100	.1170	-.9040	-.5000	-.8340	-.2850	-.0930			-.2970	-.2140	-.0730	-.0810	.0270
													.1920	-.0100	-.0140
315.000	1.1100	.0700	-.3270	-1.2080	-.6930	-.4670	-.1180								

X/LS	.9670
PHI	
.000	-.1850
45.000	-.1480
90.000	-.1470
135.000	.1790
180.000	.2130

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS03)

MACH (2) = .901 BETAT (1) = -8.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0780
270.000	.0120
315.000	-.1240

MACH (2) = .900 BETAT (2) = -8.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1070	.0710	-.1700	-1.1480	-.5260	-.3110	-.1480	-.1310	-.1120	-.1570	-.2490	-.1380	.0950	.0250	-.0700
45.000	1.1070	.0730	-.1350	-1.1260	-.6470	-.3130							.1680	.0650	-.0250
90.000	1.1070	.2150	-.0180	-1.0740	-.3850	-.2710	-.2950	-.2340	-.2200	-.2470	-.3750	-.0740	.3850	.3280	.2180
135.000	1.1070	.4400	.1620	-.9800	-.0990	-.1160							.5590	.4830	.3420
180.000	1.1070	.5710	.2590	-.9170	.0170	-.0090	-.0700	-.0060	.0820	.0660	-.1870	.0020	.4720	.3870	.2010
225.000	1.1070	.4890	.3370	-.8560	.0020	-.0330	-.0630						.2160	.0350	-.0500
270.000	1.1070	.2060	.1060	-.9120	-.5110	-.8510	-.2800	-.0980			-.2320	-.1910	-.0650	-.0340	.0770
315.000	1.1070	.0590	-.3440	-1.1880	-.6980	-.4870	-.1220						.0430	.0240	.0220

X/LS .9670

PHI	
.000	-.1410
45.000	-.1390
90.000	-.1330
135.000	.1490
180.000	.1870
225.000	-.0070
270.000	.0430
315.000	-.0840

MACH (2) = .900 BETAT (3) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1070	.0710	-.1620	-1.1480	-.5310	-.3050	-.1500	-.1140	-.1270	-.1580	-.2480	-.1310	.1040	.0730	-.0070
45.000	1.1070	.0710	-.1320	-1.1310	-.7080	-.2810							.1870	.1040	.0100
90.000	1.1070	.1790	-.1290	-1.0960	-.4580	-.2860	-.3010	-.2360	-.2280	-.2540	-.4000	-.0700	.3750	.3210	.2020
135.000	1.1070	.4060	.1340	-1.0130	-.1610	-.1680							.5270	.4600	.3180
180.000	1.1070	.5720	.2810	-.9210	-.0190	-.0490	-.1010	-.0250	.0570	.0320	-.2820	-.0110	.4620	.3880	.2090
225.000	1.1070	.5130	.3600	-.8450	-.0130	-.0520	-.0800						.2190	.0280	-.0490

MACH (2) = .900 BETAT (3) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.1070	.2150	.1050	-.9160	-.5260	-.8670	-.2790	-.0730			-.2230	-.1990	-.0570	-.0140	.1090
315.000	1.1070	.0550	-.3460	-1.1800	-.7370	-.4900	-.1220						.1190	.1040	.0910

X/LS	.9670
PHI	
.000	-.0830
45.000	-.0830
90.000	-.0830
135.000	.1200
180.000	.1640
225.000	.0730
270.000	.0750
315.000	-.0220

MACH (2) = .898 BETAT (4) = -2.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1010	.0840	-.1610	-1.1480	-.5460	-.2880	-.1120	-.0900	-.1270	-.2050	-.2800	-.1140	.1240	.1250	.0490
45.000	1.1010	.0630	-.1380	-1.1400	-.7530	-.2470							.1900	.1330	.0420
90.000	1.1010	.1470	-.0720	-1.1200	-.5420	-.2970	-.3010	-.2410	-.2310	-.2630	-.4170	-.0800	.3590	.3110	.1840
135.000	1.1010	.3660	.0920	-1.0380	-.2370	-.2200							.4910	.4390	.2920
180.000	1.1010	.5700	.2470	-.9200	-.0670	-.0870	-.1370	-.0450	.0310	-.0090	-.3440	-.0350	.4570	.3820	.2040
225.000	1.1010	.5320	.3690	-.8280	-.0360	-.0750	-.0970						.2220	.0310	-.0250
270.000	1.1010	.2220	.1030	-.9220	-.5370	-.8830	-.2400	-.0620			-.2370	-.2340	-.0270	.0490	.1180
315.000	1.1010	.0450	-.3520	-1.2020	-.7470	-.4900	-.1130						.2400	.1930	.1700

X/LS	.9670
PHI	
.000	-.0310
45.000	-.0810
90.000	-.0620
135.000	.1260
180.000	.1460
225.000	.0030
270.000	.0710
315.000	.0730

AMES 11-707 IA9 CRA + S3 + T9 SRM BOOSTER (RBMS03)

MACH (2) = .899 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0980	.0640	-.1520	-1.1350	-.6850	-.2490	-.0690	-.0280	-.0350	-.0920	-.2030	-.0720	.3680	.2020	.0980
45.000	1.0980	.0850	-.1340	-1.1230	-.6460	-.1430							.2050	.2140	.1140
90.000	1.0980	.0910	-.1310	-1.1320	-.7060	-.2860	-.2570	-.1990	-.2010	-.2400	-.3560	.0100	.3120	.2900	.1830
135.000	1.0960	.2940	.0130	-1.0600	-.4150	-.3050							.4490	.3830	.2400
180.000	1.0980	.5680	.2330	-.9080	-.1790	-.1690	-.2430	-.0660	-.0070	-.0700	-.3510	-.0870	.4890	.3710	.1900
225.000	1.0960	.5830	.3980	-.7700	-.0800	-.0950	-.1440						.2980	.0970	-.0040
270.000	1.0980	.2440	.0930	-.9130	-.5450	-.8960	-.1930	-.0380			-.2400	-.2350	.0360	.1040	.1050
315.000	1.0960	.0400	-.3350	-1.2400	-.8000	-.4270	-.1030						.3450	.3010	.2940

X/LS	.9670
PHI	
.000	-.0350
45.000	-.0340
90.000	-.0320
135.000	.0840
180.000	.1060
225.000	-.0630
270.000	-.0110
315.000	.2070

MACH (2) = .898 BETAT (6) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0870	.0610	-.1510	-1.1370	-.9190	-.2000	-.0640	-.0170	-.0240	-.0870	-.2150	-.0310	.5380	.4340	.3190
45.000	1.0870	.0820	-.1330	-1.1240	-.9080	-.1090							.2340	.2180	.1110
90.000	1.0870	.0660	-.1320	-1.1440	-.7810	-.2690	-.2300	-.1680	-.1540	-.1940	-.2890	.0320	.2220	.2690	.1400
135.000	1.0870	.2530	-.0320	-1.0640	-.5490	-.4780							.4110	.3250	.1950
180.000	1.0870	.5630	.2230	-.9110	-.3470	-.2230	-.2890	-.0860	-.0280	-.1040	-.3360	-.0870	.4890	.3230	.1480
225.000	1.0870	.6030	.4180	-.7460	-.2250	-.1110	-.1660						.3130	.1270	-.0550
270.000	1.0870	.2550	.0890	-.9150	-.7240	-.8590	-.1700	-.0420			-.2330	-.2150	.0600	.1570	.0840
315.000	1.0870	.0390	-.3330	-1.2440	-.8300	-.3720	-.0910						.2890	.2990	.2980

X/LS	.9670
PHI	
.000	.1870
45.000	.0010
90.000	-.0070
135.000	.0370
180.000	.0730

AMES 11-707 IA9 OEA + 55 + T9 SRM BOOSTER (RBMS03)

MACH (2) = .898 BETAT (6) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.1130
270.000	-.0640
315.000	.2040

MACH (2) = .901 BETAT (7) = 6.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0820	.0520	-.1510	-1.1420	-.8880	-.2000	-.0530	-.0060	-.0180	-.0870	-.2080	-.0110	.5530	.4840	.3810
45.000	1.0820	.0370	-.1500	-1.1280	-.7950	-.0960							.3600	.1720	.0360
90.000	1.0820	.0370	-.1470	-1.1580	-.7930	-.2530	-.1920	-.1340	-.1060	-.1470	-.2560	.0290	.2290	.2450	.1250
135.000	1.0820	.2120	-.0770	-1.1080	-.6040	-.5510							.2560	.2870	.1590
180.000	1.0820	.5560	.2170	-.9100	-.3620	-.2650	-.3200	-.0970	-.0390	-.1210	-.3140	-.1090	.4320	.2480	.1090
225.000	1.0820	.6210	.4350	-.7230	-.2420	-.1150	-.1610						.2090	-.0580	-.1520
270.000	1.0820	.2690	.0820	-.9120	-.6070	-.9090	-.1820	-.0270			-.2310	-.2060	.1050	.0770	-.0440
315.000	1.0820	.0390	-.3220	-1.2420	-.8380	-.3500	-.0910						.2440	.2870	.2810

X/LS .9670

PHI	
.000	.2100
45.000	-.0850
90.000	-.1040
135.000	.0070
180.000	.0470
225.000	-.0130
270.000	-.1870
315.000	.2070

MACH (2) = .900 BETAT (8) = 8.270

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1951	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0870	.0450	-.1510	-1.1360	-.8880	-.1800	-.0460	-.0060	-.0150	-.0810	-.1910	-.0170	.4880	.4590	.3550
45.000	1.0870	.0360	-.1480	-1.1200	-.6150	-.1230							.4040	.2490	.0990
90.000	1.0870	.0210	-.1490	-1.1610	-.7940	-.2540	-.1840	-.1230	-.0890	-.1250	-.2500	-.0240	.2900	.1980	.0720
135.000	1.0870	.1740	-.1170	-1.1220	-.6510	-.6220							.2090	.2210	.1050
180.000	1.0870	.5580	.2150	-.8960	-.3810	-.2940	-.3900	-.1030	-.0400	-.1060	-.3010	-.1500	.2410	.0890	.0400
225.000	1.0870	.6480	.4480	-.6930	-.2110	-.1150	-.1620						.0570	-.1410	-.1730

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM503)

MACH (2) = .900 BETAT (8) = 8.270

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9398
PHI															
270.000	1.0670	.2760	.0720	-.9070	-.9240	-.8850	-.1580	.0000			-.2250	-.2300	.0680	.0170	-.1290
315.000	1.0670	.0320	-.3110	-1.2290	-.8350	-.3360	-.1040						.2150	.2470	.2870

X/LS	.9870
PHI	
.000	.2080
45.000	-.0350
90.000	-.0640
135.000	-.0450
180.000	.0040
225.000	.0040
270.000	-.2780
315.000	.2020

MACH (3) = 1.101 BETAT (1) = -8.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9398
PHI															
.000	1.2510	.2500	.0700	-.6930	-.5990	-.3040	-.1840	-.1880	-.2150	-.0800	-.1080	-.3200	.0380	.0180	-.0710
45.000	1.2510	.2600	.1150	-.6730	-.5170	-.3580							-.0910	.1630	.0790
90.000	1.2510	.4240	.2620	-.6160	-.3470	-.1480	-.2730	-.3790	-.3300	-.1420	-.2760	-.3740	.0570	.5270	.3700
135.000	1.2510	.6230	.4170	-.5430	-.1840	.0020							.2040	.7680	.5150
180.000	1.2510	.6990	.4670	-.5150	-.0210	.1950	.1210	-.0440	-.0230	.2130	-.0110	-.4050	.1550	.8390	.3510
225.000	1.2510	.6080	.5252	-.4740	-.2780	.1950	.1330						.0040	.1280	-.0630
270.000	1.2510	.3830	.3470	-.4870	-.7960	-.4220	-.0990	-.1850			-.1950	-.3020	-.1030	-.1200	.0330
315.000	1.2510	.2580	-.0630	-.7930	-.7960	-.3690	-.0710						-.0420	-.0380	.0350

X/LS	.9870
PHI	
.000	-.0940
45.000	-.0810
90.000	-.0200
135.000	.2240
180.000	.3820
225.000	.1870
270.000	.0490
315.000	.0000

AMES 11-79? IA9 CBA + 53 + T9 SRN BOOSTER (RBN803)

MACH (3) = 1.17? BETAT (2) = -8.120

SECTION 1 SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2340	.2???	.????	-.6930	-.8000	-.2900	-.1470	-.1840	-.2230	-.0840	-.1300	-.3045	.0390	.0350	-.0110
45.000	1.2340	.2?3?	.1?8?	-.6??0	-.5310	-.3???							-.0850	.1520	.0910
90.000	1.2340	.????	.2???	-.8290	-.3??0	-.1860	-.3130	-.2080	-.3??0	-.1430	-.2090	-.3710	.0320	.3290	.3540
135.000	1.2340	.4?6?	.3???	-.??30	-.1??0	.0360							.1840	.7390	.4890
180.000	1.2340	.????	.4?8?	-.???0	.0??0	.1?30	.0?30	-.0?00	-.0?10	.1800	-.0460	-.3620	.1?50	.8130	.3?30
225.000	1.2340	.6??	.5410	-.4530	-.2480	.1?40	.0450						.0440	.1240	-.0910
270.000	1.2340	.3690	.3290	-.6?00	-.?990	-.4???	-.0860	-.2020			-.1000	-.2480	-.0830	-.0990	.0?90
315.000	1.2340	.0?30	-.0?30	-.8?20	-.?360	-.???0	-.1?30						.0?60	.0330	.0820

X/LS .9870

PHI

.000	-.?2??
45.000	-.?3??
90.000	.?04?
135.?00	.?2??
180.?00	.?33?
225.?00	-.?0??
270.?00	.?2??
315.?00	.?32?

MACH (3) = 1.172 BETAT (3) = -4.080

SECTION 1 SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2340	.2290	.0720	-.6910	-.8000	-.1990	-.1270	-.1800	-.2730	-.1800	-.1110	-.2680	.0520	.0840	.0390
45.000	1.2340	.2280	.1020	-.6760	-.5400	-.3430							-.0850	.1570	.1100
90.000	1.2340	.3490	.2030	-.6440	-.4300	-.2210	-.3450	-.3100	-.3840	-.1500	-.3080	-.3700	.0330	.4920	.3370
135.000	1.2340	.5840	.3860	-.5700	-.1710	-.0090							.1950	.8970	.4580
180.000	1.2340	.7060	.4790	-.4560	.0110	.1500	.0470	-.1030	-.1190	.1460	-.0910	-.3590	.1890	.5770	.3080
225.000	1.2340	.6310	.5570	-.4240	-.2240	.1690	.0720						.0840	.0790	-.0890
270.000	1.2340	.3580	.3110	-.4970	-.7750	-.4970	-.2160	-.1970			-.0780	-.2510	-.0970	-.0990	.1010
315.000	1.2340	.2180	-.1040	-.8090	-.7580	-.3190	-.1770						.0730	.0970	.1410

X/LS .9870

PHI

.000	.0270
45.000	.0400
90.000	.0410
135.000	.2730
180.000	.3280

AMES 11-7DT 1A9 02A + S3 + T9 SRM BOOSTER (RBMS03)

MACH (3) = 1.102 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0360
270.000	.1100
315.000	.1060

MACH (3) = 1.100 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2250	.2030	.0700	-.6820	-.5930	-.1760	-.1020	-.1570	-.2280	-.1110	-.1470	-.2910	.0780	.1050	.1010
45.000	1.2250	.2090	.0940	-.6770	-.5480	-.3270							-.0070	.1060	.1430
90.000	1.2250	.3060	.1710	-.6570	-.4230	[illegible]	[illegible]	-.3270	-.3580	-.1600	-.3070	-.3420	.0410	.4440	.3280
135.000	1.2250	.5290	.3270	-.5830	-.1680	-.0550							.1400	.6540	.4310
180.000	1.2250	.7090	.4760	-.4780	.0050	.1280	.0120	-.1420	-.1580	.1120	-.1510	-.3770	.1630	.5450	.2950
225.000	1.2250	.6440	.5710	-.3960	-.1980	.1600	.0580						.0700	.0140	-.0880
270.000	1.2250	.5190	.2950	-.4970	-.7530	-.5040	-.1520	-.1600			-.0830	-.2499	-.1250	-.0780	.0700
315.000	1.2250	.1920	-.1170	-.8120	-.7640	-.3960	-.1720						.1190	.1390	.2250

X/LS .9670

PHI	
.000	.0640
45.000	.0750
90.000	.0770
135.000	.2420
180.000	.3000
225.000	.0020
270.000	.0800
315.000	.2420

MACH (3) = 1.099 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2110	.2010	.0770	-.6840	-.5860	-.2150	-.0900	-.1240	-.1250	-.0230	-.0990	-.3560	.1220	.1340	.1370
45.000	1.2110	.1960	.0960	-.6770	-.5530	-.3210							.0410	.0880	.1370
90.000	1.2110	.2660	.1450	-.6720	-.4400	-.2860	-.4100	-.3500	-.3450	-.1590	-.2520	-.2740	.0370	.3730	.3110
135.000	1.2110	.4930	.2950	-.5990	-.1790	-.1090							.1310	.5980	.3980
180.000	1.2110	.7010	.4710	-.4620	.0000	.0980	-.0230	-.1990	-.1910	.0710	-.1910	-.3720	.1820	.5090	.2710
225.000	1.2110	.6300	.5740	-.3830	.0210	.1490	.0710						.0910	-.0120	-.1160

MACH (3) = 1.099 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.2110	.3390	.2760	-.5030	-.6940	-.5150	-.0670	-.1250			-.0740	-.2620	-.1440	-.0880	.0070
315.000	1.2110	.1810	-.1130	-.8090	-.7910	-.5400	-.0400						.1480	.1460	.2170

X/LS	.9670
PHI	
.000	.0800
45.000	.0980
90.000	.0980
135.000	.2300
180.000	.2720
225.000	-.0540
270.000	.0470
315.000	.2910

MACH (3) = 1.101 BETAT (6) = 2.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1940	.1470	.0760	-.6800	-.5780	-.1270	-.0740	-.0910	-.1070	-.0160	-.0530	-.2710	.3850	.2580	.1800
45.000	1.1940	.1650	.0950	-.6730	-.5560	-.3100							.0930	.1620	.1880
90.000	1.1940	.2110	.1100	-.6800	-.4520	-.3330	-.3370	-.3590	-.2850	-.1260	-.2020	-.1050	.0450	.2530	.2900
135.000	1.1940	.4190	.2570	-.6110	-.1920	-.1570							.1000	.5520	.3500
180.000	1.1940	.6410	.4780	-.4460	.0380	.0880	-.0600	-.2570	-.2020	.0380	-.2260	-.3660	.2130	.4960	.2520
225.000	1.1940	.5920	.5900	-.3470	.1050	.1550	.0480						.1040	-.0170	-.1020
270.000	1.1940	.2280	.2610	-.5120	-.5080	-.5190	-.2020	-.1490			-.0910	-.2660	-.1470	-.0990	.0070
315.000	1.1940	.0800	-.0910	-.7910	.7660	-.5410	-.1340						.1440	.1500	.2470

X/LS	.9670
PHI	
.000	.0890
45.000	.0990
90.000	.0990
135.000	.1990
180.000	.2400
225.000	-.0230
270.000	.0370
315.000	.2910

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS03)

MACH (3) = 1.100 BETAT (7) = 4.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1860	.1510	.0760	-.6770	-.5750	-.1500	-.0850	-.0840	-.1040	-.0040	-.0380	-.2700	.4380	.4980	.5810
45.000	1.1860	.1570	.0870	-.6760	-.5650	-.2990							.1490	.1990	.1910
90.000	1.1860	.1970	.0890	-.6990	-.4610	-.4000	-.3090	-.3440	-.2400	-.0550	-.1520	-.0780	.0580	.1520	.2310
135.000	1.1860	.4100	.2080	-.6390	-.2470	-.2470							.1180	.3020	.2980
180.000	1.1860	.6690	.4620	-.4430	-.0140	.0590	-.1070	-.3230	-.2320	.0270	-.2290	-.3610	.2240	.4190	.2100
225.000	1.1860	.6100	.6420	-.3100	.1020	.1770	.0300						.0690	-.0410	-.1190
270.000	1.1860	.2030	.2580	-.5090	-.5150	-.5260	-.1510	-.1530			-.0910	-.2510	-.1450	-.1180	-.0050
315.000	1.1860	.0740	-.0980	-.8000	-.7570	-.5520	-.1560						.1130	.1590	.2450

X/LS	.9670
PHI	
.000	.2980
45.000	.1390
90.000	.1130
135.000	.1640
180.000	.2020
225.000	-.1020
270.000	-.0010
315.000	.2790

MACH (3) = 1.103 BETAT (8) = 6.240

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1730	.1410	.0870	-.6720	-.5640	-.1560	-.0900	-.0590	-.0990	.0100	-.0200	-.2840	.4250	.5110	.4200
45.000	1.1730	.1640	.0890	-.6730	-.5650	-.2670							.2850	.2890	.1780
90.000	1.1730	.1790	.0620	-.7040	-.4490	-.4350	-.2720	-.3130	-.2340	-.0220	-.1240	-.1740	.1000	.2170	.2290
135.000	1.1730	.3810	.1660	-.6550	-.2860	-.4230							.0870	.3580	.2420
180.000	1.1730	.6670	.4490	-.4430	-.0450	-.1560	-.1330	-.3660	-.1730	-.0040	-.1990	-.3320	.3780	.2970	.1300
225.000	1.1730	.6470	.6550	-.2850	.0970	.0000	.0270						.1280	-.1290	-.1870
270.000	1.1730	.2530	.2550	-.5020	-.5140	-.6570	-.2280	-.1510			-.0750	-.2480	-.1440	-.0980	-.0140
315.000	1.1730	.0970	-.0990	-.7920	-.7340	-.5390	-.2090						.1091	.1850	.2550

X/LS	.9670
PHI	
.000	.3330
45.000	.0890
90.000	.0890
135.000	.1250
180.000	.1720

MACH (3) = 1.103 BETAT (8) = 6.240

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0830
270.000	-.0580
315.000	.2770

MACH (3) = 1.101 BETAT (9) = 7.800

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1600	.1400	.0850	-.6750	-.5630	-.1480	-.0980	-.0480	-.1040	.0130	-.0210	-.3110	.4370	.5290	.4330
													.3740	.3740	.2320
45.000	1.1600	.1570	.0850	-.6730	-.5630	-.2420							.0990	.2160	.2140
90.000	1.1600	.1570	.0370	-.7120	-.4470	-.4530	-.2550	-.3250	-.2670	-.0080	-.1340	-.2300	.0670	.2660	.2140
135.000	1.1600	.3490	.1320	-.6710	-.3190	-.4900							.3500	.1800	.0790
180.000	1.1600	.6650	.4390	-.4390	-.0600	-.2860	-.1540	-.4000	-.0740	-.0060	-.2270	-.3080	.0700	-.1900	-.1840
225.000	1.1600	.6560	.6610	-.2700	.0970	-.1830	.0290								
270.000	1.1600	.2370	.2370	-.5070	-.5210	-.6700	-.3560	-.1610			-.0850	-.2770	-.1490	-.1540	-.0450
315.000	1.1600	.0790	-.0910	-.7870	-.7280	-.5450	-.1450						.0990	.1700	.2420

X/LS .9670

PHI	
.000	.5400
45.000	.1440
90.000	.1170
135.000	.1200
180.000	.1500
225.000	-.1150
270.000	-.0940
315.000	.2690

MACH (4) = 1.248 BETAT (1) = -8.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3480	.2600	.1510	-.4830	-.4260	-.4270	-.2850	-.3040	-.4660	-.2080	-.0840	-.2380	.0370	.0590	.0360
													-.0240	.0780	.1180
45.000	1.3480	.2440	.2020	-.4600	-.3740	-.2990							.0070	.3440	.4150
90.000	1.3480	.3930	.2020	-.4060	-.2430	-.1230	-.1560	-.2580	-.3940	-.2100	-.2420	-.2950	.0540	.5420	.6040
135.000	1.3480	.5880	.5070	-.3370	-.1210	.0670							.0020	.2880	.4900
180.000	1.3480	.8540	.5430	-.3320	-.0500	.2050	.1970	.0970	-.0680	-.0390	.0820	-.3300	-.0110	.0780	.0820
225.000	1.3480	.9970	.6040	-.3010	-.2190	.2320	.1970								

AMES 11-7DT IA9 C2A + S3 + T9 SRM BOOSTER (RBMS03)

MACH (4) = 1.248 BETAT (1) = -8.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3480	.4090	.3010	-.2740	-.6180	-.3300	-.3330	-.0700			-.1890	-.2680	-.0850	-.1290	.0210
315.000	1.3490	.2830	.0300	-.5890	-.6810	-.5760	-.1080						-.0250	-.0350	.0480

X/LS .9670

PHI	
.000	.0080
45.000	.0080
90.000	.0540
135.000	.2770
180.000	.4450
225.000	.2860
270.000	.0590
315.000	.0410

MACH (4) = 1.249 BETAT (2) = -8.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3390	.2140	.1380	-.4720	-.4260	-.4160	-.2150	-.2010	-.3130	-.4080	-.0780	-.2420	.0550	.0410	.0150
45.000	1.3390	.1780	.1810	-.4620	-.3870	-.3030							-.0260	.0350	.1150
90.000	1.3390	.3210	.2910	-.4180	-.2660	-.1600	-.1880	-.2950	-.4340	-.2280	-.2600	-.2890	-.0220	.2080	.4080
135.000	1.3390	.5360	.4800	-.3570	-.1370	.0190							.0340	.2900	.6130
180.000	1.3390	.6330	.5490	-.3240	-.0240	.1380	.1780	.0440	-.1120	-.0770	.0370	-.3520	.0380	.2360	.4780
225.000	1.3390	.5820	.6210	-.2870	-.1880	.1710	.1990						.0160	.1620	.0480
270.000	1.3390	.3770	.4920	-.2760	-.6090	-.3590	-.3140	-.1120			-.0630	-.2420	-.0580	-.1250	.0480
315.000	1.3390	.2380	.0040	-.6000	-.6900	-.5330	-.1540						-.0200	-.0050	.0530

X/LS .9670

PHI	
.000	.0830
45.000	.0280
90.000	.0390
135.000	.2720
180.000	.4220
225.000	.2700
270.000	.0850
315.000	.1420

MACH (4) = 1.245 BETAT (3) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3250	.1740	.1260	-.4880	-.4380	-.3470	-.1850	-.1770	-.2730	-.3330	-.0870	-.2610	.0380	.0290	.0170
45.000	1.3250	.1200	.1710	-.4760	-.4080	-.3020							-.0360	.0120	.1050
90.000	1.3250	.2870	.2860	-.4430	-.3070	-.1920	-.2290	-.3560	-.4630	-.2550	-.2490	-.2980	-.0260	.1410	.3840
135.000	1.3250	.4920	.4420	-.3800	-.1630	-.0340							.0310	.2580	.5690
180.000	1.3250	.6160	.5460	-.3310	.0060	.0800	.1790	-.0100	-.1630	-.1070	-.0130	-.3540	.0450	.3110	.4270
225.000	1.3250	.5770	.6320	-.2810	-.1590	.1020	.2120						.0500	.1970	-.0190
270.000	1.3250	.3460	.4730	-.2820	-.6010	-.3960	-.3230	-.1090			-.0380	-.2310	-.0720	-.1170	.0080
315.000	1.3250	.1920	-.0330	-.6230	-.6930	-.5730	-.1780						.0420	.0730	.1030

X/LS	.9670
PHI	
.000	.0940
45.000	.0460
90.000	.0640
135.000	.2600
180.000	.3840
225.000	.2400
270.000	.0740
315.000	.2100

MACH (4) = 1.248 BETAT (4) = -2.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3110	.1430	.1080	-.4930	-.4430	-.3280	-.1410	-.1530	-.2460	-.2130	-.1050	-.2920	.0590	.0440	.0700
45.000	1.3110	.0980	.1460	-.4830	-.4190	-.3080							-.0280	.0110	.1000
90.000	1.3110	.2170	.2020	-.4610	-.3370	-.2340	-.2700	-.4020	-.3480	-.2400	-.2490	-.2760	-.0180	.1030	.3590
135.000	1.3110	.4580	.4140	-.3960	-.1780	-.0840							.0280	.2410	.5210
180.000	1.3110	.6110	.5490	-.3300	.0310	.0320	.1470	-.0610	-.2000	-.1080	-.0480	-.3030	.0330	.3900	.3850
225.000	1.3110	.5800	.6460	-.2650	-.1270	.0540	.1960						.0940	.1430	-.1030
270.000	1.3110	.3240	.4530	-.2980	-.5860	-.4180	-.3370	-.1070			-.0260	-.2320	-.1140	-.1290	.0350
315.000	1.3110	.1500	-.0600	-.6380	-.7150	-.6140	-.1720						.0450	.0920	.1300

X/LS	.9670
PHI	
.000	.1230
45.000	.0750
90.000	.0890
135.000	.2470
180.000	.3500

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBNS03)

MACH (4) = 1.243 BETAT (4) = -2.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.2060
270.000	.0870
315.000	.2750

MACH (4) = 1.247 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4839	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2800	.0940	.0880	-.5110	-.4430	-.3600	-.0600	-.0980	-.0840	-.0690	-.0250	-.2850	.3300	.3170	.2220
													.0690	.1190	.1730
45.000	1.2800	.0450	.1200	-.4890	-.4270	-.2870							.0010	.0920	.3210
90.000	1.2800	.1210	.1470	-.4900	-.3930	-.3030	-.3200	-.3260	-.3090	-.1630	-.1720	-.1700	.0240	.2120	.4710
135.000	1.2800	.3720	.3160	-.4370	-.2120	-.2050							.0050	.4970	.3080
180.000	1.2800	.6080	.5170	-.3420	.0350	-.0550	.0770	-.1970	-.2920	-.0260	-.1290	-.3040	.0590	-.0270	-.1250
225.000	1.2800	.6120	.6330	-.2390	-.0450	-.0050	.1660						-.1570	-.1490	-.0580
270.000	1.2800	.2970	.4350	-.2930	-.5460	-.4470	-.3410	-.1140			-.0410	-.2280	.0490	.1440	.1000
315.000	1.2800	.0950	-.0750	-.6390	-.7100	-.5300	-.0710								

X/LS .9670

PHI	
.000	.1850
45.000	.1880
90.000	.1540
135.000	.2800
180.000	.3120
225.000	.1930
270.000	-.0040
315.000	.2900

MACH (4) = 1.247 BETAT (6) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4839	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2820	.0370	.0790	-.5120	-.4460	-.2530	-.0550	-.0770	-.0780	-.0620	-.0170	-.2920	.2750	.4980	.4080
													.1990	.1810	.2070
45.000	1.2820	.0790	.1000	-.4920	-.4240	-.2680							.0810	.1000	.2380
90.000	1.2820	.0980	.0980	-.5080	-.4110	-.3260	-.3340	-.2630	-.2740	-.1150	-.1290	-.2020	.0590	.2980	.3610
135.000	1.2820	.2790	.2650	-.4610	-.2150	-.2760							.0990	.9920	.2830
180.000	1.2820	.5290	.5030	-.3240	.0790	-.1010	.0430	-.1980	-.3380	.0020	-.1670	-.2590	.1360	.0820	-.0710
225.000	1.2820	.5510	.6270	-.2140	.2350	-.0350	.1480								

AMES 11-707 1A9 OPA + S3 + T9 SRM BOOSTER (RBMS03)

MACH (4) = 1.247 BETAT (6) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.2620	.2180	.4230	-.2990	-.3350	-.4640	-.3660	-.1410			-.0490	-.2330	-.1080	-.0730	-.0140
315.000	1.2620	-.0120	-.0530	-.6270	-.6760	-.5160	-.0900						.0720	.2200	.1430

X/LS .9619

PHI	
.000	.2990
45.000	.3600
90.000	.1990
135.000	.2320
180.000	.2310
225.000	.1620
270.000	.0570
315.000	.3090

MACH (4) = 1.248 BETAT (7) = 6.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2420	-.0110	.0700	-.5030	-.4310	-.190	-.0810	-.0590	-.0650	.0050	-.0090	-.2650	.2130	.5420	.4520
45.000	1.2420	.0530	.0930	-.4910	-.4170	-.2500							.2290	.2840	.1870
90.000	1.2420	.0730	.0950	-.5140	-.4190	-.[illegible]	[illegible]	-.2630	-.2870	-.0570	-.1150	-.2060	.0500	.1310	.2910
135.000	1.2420	.2140	.2360	-.4710	-.2190	-.3380							-.0160	.2330	.3210
180.000	1.2420	.4650	.5190	-.2930	.0550	-.1380	.0160	-.2320	-.3910	-.0650	-.1560	-.2670	.1260	.4710	.1850
225.000	1.2420	.5050	.6890	-.1520	.2130	-.0410	.1660						.1510	.0030	-.1810
270.000	1.2420	.1910	.3910	-.3020	-.3260	-.4680	-.3290	-.1650			-.0350	-.2180	-.1200	-.1090	-.0550
315.000	1.2420	-.0630	-.0510	-.6170	-.6440	-.5100	-.1020						.0580	.2010	.1540

X/LS .9670

PHI	
.000	.3520
45.000	.[illegible]730
90.000	.1540
135.000	.1880
180.000	.21[illegible]0
225.000	.0940
270.000	.0310
315.000	.2890

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS03)

MACH (4) = 1.251 BETAT (8) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2270	.0060	.0730	-.4990	-.4330	-.1560	-.1050	-.0370	-.0230	-.0330	-.0110	-.2980	.1900	.3840	.4950
45.000	1.2270	.0320	.0920	-.4860	-.4080	-.2110							.2120	.3200	.3560
90.000	1.2270	.0210	.0610	-.5190	-.4220	-.3680	-.1710	-.2680	-.2950	-.0780	-.1100	-.2200	.1140	.1830	.2190
135.000	1.2270	.2140	.1870	-.4880	-.2370	-.3900							.0200	.1620	.2710
180.000	1.2270	.5240	.5050	-.2860	.0720	-.1570	.0040	-.2430	-.4220	.0820	-.2120	-.2380	.2330	.2400	.1070
225.000	1.2270	.5890	.6020	-.1990	.2270	-.0710	.1280						.1160	-.0920	-.1410
270.000	1.2270	.2360	.3770	-.3100	-.3020	-.4730	-.3150	-.1750			-.0620	-.2670	-.1140	-.0800	-.0270
315.000	1.2270	-.0410	-.0350	-.6010	-.5890	-.4930	-.1220						.0270	.2320	.1720

X/LS	.9670
PHI	
.000	.3640
45.000	.4140
90.000	.2690
135.000	.1820
180.000	.1730
225.000	.0710
270.000	-.0170
315.000	.2770

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .595 BETAT (1) = -8.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0150	-.0120	-.4310	-.7990	-.2420	-.1440	-.1380	-.1080	-.0980	-.1430	-.2130	-.0930	.1200	-.0140	-.1040
45.000	1.0150	.0270	-.3370	-.6460	-.2930	-.2100							.1840	.0890	-.0160
90.000	1.0150	.1650	-.1790	-.4500	-.1940	-.1370	-.1330	-.1380	-.1580	-.1750	-.2130	-.0360	.4140	.3120	.1980
135.000	1.0150	.3570	-.0120	-.2870	-.0780	-.0250							.5390	.4190	.2730
180.000	1.0150	.4110	.0140	-.2410	-.0380	.0170	.0170	.0200	.0560	.0070	-.1760	-.0220	.4170	.2860	.1280
225.000	1.0150	.3360	.0370	-.3560	-.0910	-.0070	.0080						.2450	.1200	.0130
270.000	1.0150	.1220	-.2120	-1.2100	-.7670	-.5020	-.2450	-.1610			-.2740	-.0800	.0640	.0470	.0770
315.000	1.0150	-.0050	-.5870	-1.0440	-.3160	-.1810	-.0840						.1200	.0480	-.0050

X/LS	.9670
PHI	
.000	-.1870
45.000	-.1610
90.000	-.1600
135.000	.0460
180.000	.0920
225.000	-.0240
270.000	.0060
315.000	-.1370

MACH (1) = .597 BETAT (2) = -6.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0120	-.0190	-.4230	-.8090	-.2390	-.1410	-.1300	-.1060	-.0930	-.1370	-.2070	-.0820	.1260	.0180	-.0800
45.000	1.0120	.0140	-.3460	-.6840	-.2830	-.1960							.2100	.0990	.0050
90.000	1.0120	.1440	-.2050	-.4990	-.2170	-.1560	-.1520	-.1530	-.1650	-.1750	-.2190	-.0350	.4000	.2980	.1720
135.000	1.0120	.3180	-.0530	-.3370	-.1120	-.0590							.5170	.3940	.2460
180.000	1.0120	.4030	.0060	-.2940	-.0640	-.0090	-.0030	-.0020	.0310	-.0240	-.1830	-.0190	.4240	.2900	.1300
225.000	1.0120	.3480	.0360	-.3750	-.1110	-.0250	-.0100						.2480	.1310	.0270
270.000	1.0120	.1230	-.2170	-1.2340	-.7990	-.5240	-.2540	-.1530			-.2560	-.0780	.0480	.0790	.1120
315.000	1.0120	-.0130	-.5980	-1.0830	-.3370	-.1940	-.1020						.1250	.0780	.0200

X/LS	.9670

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBNSD4)

MACH (1) = .597 BETAT (2) = -6.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	-.1450
45.000	-.1360
90.000	-.1310
135.000	.0460
180.000	.0780
225.000	.0080
270.000	.0300
315.000	-.0810

MACH (1) = .599 BETAT (3) = -4.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0130	-.0200	-.4190	-.8220	-.2310	-.1300	-.1140	-.0970	-.0910	-.1280	-.1980	-.0790	.1480	.0770	.0040
45.000	1.0130	.0090	-.3620	-.7140	-.2640	-.1760							.2380	.1340	.0340
90.000	1.0130	.1180	-.2420	-.5410	-.2310	-.1640	-.1590	-.1510	-.1700	-.1880	-.2220	-.0400	.3900	.2680	.1350
135.000	1.0130	.2820	-.0910	-.3780	-.1420	-.0870							.4980	.3800	.2280
180.000	1.0130	.4040	.0020	-.3100	-.0800	-.0270	-.0220	-.0190	.0150	-.0470	-.1920	-.0090	.4300	.3040	.1390
225.000	1.0130	.3630	.0470	-.3810	-.1160	-.0360	-.0200						.2580	.1810	.0490
270.000	1.0130	.1190	-.2070	-1.2290	-.8010	-.5270	-.2590	-.1550			-.2420	-.1100	.0660	.1450	.1690
315.000	1.0130	-.0190	-.5940	-1.1020	-.3340	-.1970	-.1160						.1020	.1250	.0960

X/LS .9670

PHI	
.000	-.1020
45.000	-.1020
90.000	-.0990
135.000	.0500
180.000	.0500
225.000	-.0210
270.000	.0640
315.000	-.0410

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMSD4)

MACH (1) = .599 BETAT (4) = -2.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0080	-.0240	-.4130	-.8010	-.2310	-.1120	-.0520	-.0840	-.0920	-.1260	-.2010	-.0420	.1770	.1370	.0570
45.000	1.0080	-.0020	-.3570	-.7160	-.2490	-.1560							.2740	.1690	.0570
90.000	1.0080	.0840	-.2590	-.5710	-.2420	-.1710	-.1580	-.1580	-.1710	-.1690	-.2140	-.0300	.3850	.2800	.1480
135.000	1.0080	.2470	-.1280	-.4220	-.1690	-.1150							.4810	.3580	.2160
180.000	1.0080	.3980	-.0160	-.3080	-.0980	-.0450	-.0400	-.0340	-.0020	-.0760	-.1990	-.0080	.4380	.3140	.1480
225.000	1.0080	.3780	.0570	-.3850	-.1260	-.0450	-.0290						.3120	.1910	.0810
270.000	1.0080	.1390	-.2060	-1.2920	-.8260	-.5470	-.2680	-.1610			-.2610	-.1120	.1400	.2120	.1870
315.000	1.0080	-.0260	-.5870	-1.1030	-.3310	-.1980	-.1360						.1260	.1820	.1490

X/LS	.9670
PHI	
.000	-.0480
45.000	-.0510
90.000	-.0670
135.000	.0480
180.000	.0450
225.000	-.0150
270.000	.0690
315.000	.0020

MACH (1) = .600 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0040	-.0330	-.4070	-.8060	-.2230	-.1030	-.0830	-.0680	-.0750	-.1200	-.1940	.0040	.1700	.0010	.1130
45.000	1.0040	-.0130	-.3690	-.7360	-.2340	-.1340							.2930	.0010	.0750
90.000	1.0040	.0450	-.2030	-.6180	-.2500	-.1740	-.1610	-.1580	-.1650	-.1740	-.2060	-.0170	.3820	.2720	.1290
135.000	1.0040	.2040	-.1730	-.4810	-.2080	-.1510							.4830	.3420	.1920
180.000	1.0040	.3580	-.0310	-.3220	-.1250	-.0680	-.0620	-.0550	-.0280	-.1020	-.2140	-.0020	.4490	.3230	.1510
225.000	1.0040	.3960	.0680	-.3880	-.1380	-.0550	-.0350						.3440	.2300	.0780
270.000	1.0040	.1400	-.2100	-1.3340	-.8360	-.5540	-.2830	-.1690			-.2680	-.1070	.1040	.2230	.1490
315.000	1.0040	-.0320	-.5800	-1.1290	-.3380	-.2030	-.1300						.1060	.2190	.1880

X/LS	.9670
PHI	
.000	-.0220
45.000	-.0240
90.000	-.0310
135.000	-.0210
180.000	.0250

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMS04)

MACH (1) = .800 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0150
270.000	.0550
315.000	.0380

MACH (1) = .599 BETAT (6) = 2.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9990	-.0410	-.4010	-.8040	-.2170	-.0950	-.0380	-.0480	-.0390	-.0960	-.1390	.0050	.2520	.2240	.1140
45.000	.9990	-.0290	-.3700	-.7360	-.2180	-.1180							.2090	.2090	.0910
90.000	.9990	.0080	-.3300	-.6410	-.2530	-.1740	-.1550	-.1460	-.1470	-.1690	-.1820	-.0010	.3560	.2540	.1140
135.000	.9990	.1620	-.2110	-.5320	-.2390	-.1300							.4380	.3180	.1730
180.000	.9990	.3820	-.0400	-.3510	-.1450	-.0920	-.0830	-.0730	-.0410	-.1210	-.2220	-.0030	.4490	.3180	.1410
225.000	.9990	.4180	.0820	-.3670	-.1390	-.0810	-.0420						.3700	.2410	.0860
270.000	.9990	.1580	-.2050	-1.3810	-.8240	-.5550	-.2930	-.1820			-.2320	-.0620	.2360	.2630	.1900
315.000	.9990	-.0290	-.3680	-1.1110	-.3300	-.1980	-.1680						.3770	.3540	.2870

X/LS .9670

PHI	
.000	-.0270
45.000	-.0300
90.000	-.0330
135.000	-.0250
180.000	.0120
225.000	-.0080
270.000	.0010
315.000	.1180

MACH (1) = .599 BETAT (7) = 4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9910	-.0430	-.3920	-.8090	-.2130	-.0990	-.0630	-.0410	-.0490	-.0770	-.1300	.0490	.4960	.3730	.2200
45.000	.9910	-.0280	-.3720	-.7350	-.2040	-.1040							.2500	.1830	.0640
90.000	.9910	-.0110	-.3720	-.6670	-.2300	-.1740	-.1390	-.1240	-.1140	-.1310	-.1470	.0490	.2490	.2240	.1690
135.000	.9910	.1180	-.2350	-.5690	-.2650	-.2090							.4010	.2730	.1930
180.000	.9910	.3850	-.0370	-.3760	-.1720	-.1200	-.1020	-.0980	-.0940	-.1320	-.2110	-.0110	.4490	.2960	.1330
225.000	.9910	.4380	.1010	-.3580	-.1420	-.0690	-.0430						.3950	.2190	.0770

TABULATED PRESSURE DATA - 1494

[illegible]

[illegible]

[illegible]

SECTION SIDEWALL BOUNDARY DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	[illegible]	.1138	.1422	.1991	.2844	.3697	.4833	.5973	.7117	.8248	.8817	.9044	.9388

PHI

[illegible]	[illegible]	[illegible]	.1990	1.4330	-.8190	-.5520	-.2990	-.1960			-.2520	-.2130	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-.3540	-1.0490	-.3230	-.2700	-.1750						[illegible]	[illegible]	[illegible]

[illegible]

PHI

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

[illegible]

SECTION SIDEWALL BOUNDARY DEPENDENT VARIABLE CP

X/LS	[illegible]	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4833	.5973	[illegible]	.8248	.8817	.9044	.9388

PHI

[illegible]	.9880	-.0570	-.3980	-.7920	-.2080	-.0940	-.0580	-.0370	-.0480	-.0730	-.1510	[illegible]	.4820	.3890	.2170
45.000	.9880	-.0360	-.3790	-.7280	-.1960	-.0890							.3740	.1880	[illegible]
90.000	.9880	-.0320	-.3790	-.6830	-.2490	-.1660	-.1250	-.1060	-.0940	-.1070	-.1240	.0490	.2930	[illegible]	[illegible]
135.000	.9880	[illegible]	-.3010	-.6020	-.2980	-.2240							.3600	.2360	[illegible]
180.000	.9880	.3470	-.0760	-.4030	-.2060	-.1340	-.1290	-.1100	-.0670	-.1440	-.2120	-.0390	.4270	.2680	[illegible]
225.000	.9880	.4490	.1070	-.3540	-.1450	-.0700	-.0470						.3740	.1450	-.0340
270.000	.9880	.1890	-.1820	-1.2320	-.7890	-.5490	-.3050	-.1990			-.2580	-.0140	.3220	.1890	.0490
315.000	.9880	-.0250	-.5260	-1.0810	-.3100	-.1840	-.1740						.4180	.4070	.3520

X/LS .9870

PHI

.000	.0490
45.000	-.0700
90.000	-.0720
135.000	-.0880
180.000	-.0290
225.000	-.0880
270.000	-.1080
315.000	.1840

AMES 11-707 IA9 CBA + S3 + T9 SRM BOOSTER (RBMS04)

MACH (1) = .801 BETAT (9) = 8.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9740	-.0600	-.3690	-.7730	-.2090	-.0610	-.0350	-.0340	-.0540	-.0870	-.1480	.0960	.5140	.4090	.2370
45.000	.9740	-.0430	-.3800	-.6980	-.1800	-.0780							.4370	.2750	.1320
90.000	.9740	-.0510	-.3830	-.6910	-.2440	-.1560	-.1190	-.0980	-.0840	-.1030	-.1270	.0250	.2480	.1750	.0640
135.000	.9740	.0390	-.3320	-.6370	-.3240	-.2600							.2330	.2180	.0810
180.000	.9740	.3390	-.0830	-.4190	-.2220	-.1690	-.1430	-.1140	-.0750	-.1410	-.2200	-.0680	.3660	.1880	.0770
225.000	.9740	.4675	.1270	-.3500	-.1400	-.0690	-.0490						.2150	-.0030	-.0690
270.000	.9740	.2040	-.1790	-1.2810	-.7520	-.5360	-.3010	-.1880			-.2730	.0270	.1980	.0510	-.0870
315.000	.9740	-.0300	-.4990	-1.0170	-.2930	-.1790	-.1510						.4120	.4090	.3470

X/LS	.9670
PHI	
.000	.0580
45.000	.0210
90.000	.0110
135.000	-.0630
180.000	-.0440
225.000	-.0450
270.000	-.2050
315.000	.1940

MACH (2) = .899 BETAT (1) = -8.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1550	.1290	-.1170	-1.1340	-.5260	-.2600	-.1260	-.0970	-.0690	-.1040	-.1960	-.1100	.0860	-.0210	-.0920
45.000	1.1550	.1570	-.0830	-1.0940	-.6660	-.2500							.1990	.1140	.0200
90.000	1.1550	.3080	.0750	-1.0360	-.2740	-.1600	-.1860	-.1430	-.1140	-.1260	-.2720	-.0360	.4480	.3850	.2670
135.000	1.1550	.4580	.1870	-.9730	-.0070	-.0380							.5870	.5080	.3580
180.000	1.1550	.5190	.2150	-.9600	.0620	.0170	-.0230	.0050	.1010	.1160	-.0990	-.0070	.4630	.3870	.1840
225.000	1.1550	.4520	.2820	-.9200	.0020	-.0270	-.0360						.1740	.0470	-.0450
270.000	1.1550	.2760	.2120	-.8740	-.5030	-.8090	-.2570	-.0770			-.2070	-.2290	-.0690	-.0430	.0480
315.000	1.1550	.1480	-.2200	-1.2090	-.6390	-.4160	-.0930						.0550	.0100	.0220

X/LS	.9670
PHI	
.000	-.1490
45.000	-.0780
90.000	-.0780
135.000	.1510
180.000	.1950

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

MACH (2) = .899 BETAT (1) = -8.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0480
270.000	.0290
315.000	-.0760

MACH (2) = .897 BETAT (2) = -8.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1540	.1280	-.1110	-1.1330	-.5360	-.2600	-.1100	-.1000	-.0720	-.1060	-.1950	-.0930	.0920	.0280	-.0490
45.000	1.1540	.1480	-.0660	-1.0990	-.8200	-.2250							.2200	.1530	.0470
90.000	1.1540	.2700	.0400	-1.0550	-.3900	-.1810	-.1980	-.1580	-.1340	-.1480	-.2810	-.0330	.4290	.3750	.2450
135.000	1.1540	.4310	.1590	-.9970	-.0620	-.0770							.5530	.4870	.3330
180.000	1.1540	.5140	.2180	-.9540	.0140	-.0150	-.0600	-.0200	.0740	.0780	-.1380	-.0100	.4520	.3810	.1900
225.000	1.1540	.4670	.2960	-.9060	-.0410	-.0490	-.0600						.1990	.0440	-.0410
270.000	1.1540	.2890	.2120	-.8740	-.5130	-.8060	-.2460	-.0680			-.1900	-.1930	-.0770	-.0330	.0740
315.000	1.1540	.1420	-.2240	-1.2110	-.6710	-.4360	-.1100						.0580	.0280	.0350

X/LS .9670

PHI	
.000	-.0960
45.000	-.0880
90.000	-.0860
135.000	.1490
180.000	.1790
225.000	.0610
270.000	.0500
315.000	-.0350

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1510	.1240	-.1090	-1.1220	-.5280	-.2460	-.0950	-.0770	-.0710	-.1080	-.2010	-.0700	.1100	.0750	.0250
45.000	1.1510	.1370	-.0730	-1.1040	-.8370	-.1910							.2440	.1870	.0800
90.000	1.1510	.2420	-.0050	-1.0750	-.5230	-.1840	-.1930	-.1570	-.1370	-.1550	-.2890	-.0250	.4180	.3670	.2320
135.000	1.1510	.4010	.1280	-1.0200	-.1460	-.1140							.5300	.4650	.3150
180.000	1.1510	.5160	.2130	-.9580	-.0250	-.0410	-.0650	-.0320	.0510	.0440	-.1670	-.0040	.4520	.3840	.1930
225.000	1.1510	.4870	.3040	-.8930	-.0600	-.0640	-.0750						.2090	.0410	-.0200

AMES 11-7D7 1A3 CEA + S3 + T9 SRM BOOSTER (RBNS04)

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.1510	.2910	.2020	-.8790	-.5240	-.8130	-.2280	-.0570			-.1800	-.1520	-.0490	-.0130	.1190
315.000	1.1510	.1490	-.2280	-1.2150	-.6860	-.4420	-.1000						.1020	.0820	.0850

X/LS	.9670
PHI	
.000	-.0340
45.000	-.0930
90.000	-.0310
135.000	.1110
180.000	.1580
225.000	.0140
270.000	.0880
315.000	.0220

MACH (2) = .900 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1510	.1230	-.1020	-1.1150	-.5700	-.2520	-.0810	-.0600	-.0670	-.1220	-.2050	-.0580	.1310	.1380	.0980
45.000	1.1510	.1310	-.0750	-1.1030	-.8680	-.1580							.2850	.2220	.1140
90.000	1.1510	.2120	-.0330	-1.0870	-.6900	-.1910	-.2080	-.1550	-.1390	-.1670	-.2890	-.0190	.4130	.3620	.2230
135.000	1.1510	.3710	.1030	-1.0340	-.3000	-.1490							.5070	.4510	.2950
180.000	1.1510	.5160	.2120	-.9540	-.1180	-.0700	-.1140	-.0410	.0360	.0110	-.1910	-.0180	.4550	.3900	.2040
225.000	1.1510	.5070	.3240	-.8730	-.2640	-.0800	-.0920						.2210	.0820	-.0040
270.000	1.1510	.3010	.2050	-.8750	-.5430	-.8100	-.2150	-.0450			-.1900	-.2130	-.0180	.0810	.1430
315.000	1.1510	.1380	-.2240	-1.2070	-.7090	-.4400	-.1080						.1900	.1440	.1430

X/LS	.9670
PHI	
.000	.0180
45.000	-.0010
90.000	.0030
135.000	.1080
180.000	.1480
225.000	-.0170
270.000	.0970
315.000	.0640

MACH (2) = .902 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1440	.1180	-.0990	-1.1190	-.7190	-.2360	-.0460	-.0180	-.0250	-.0690	-.1740	-.0280	.3190	.2760	.1820
45.000	1.1440	.1240	-.0830	-1.1020	-.8970	-.0820							.2180	.2480	.1710
90.000	1.1440	.1570	-.0850	-1.1080	-.7990	-.1820	-.1690	-.1250	-.1150	-.1510	-.2520	.0450	.3360	.3350	.1980
135.000	1.1440	.3090	.0300	-1.0580	-.5400	-.2200							.4610	.4010	.2480
180.000	1.1440	.3160	.2000	-.9470	-.3780	-.1220	-.2190	-.0630	.0020	-.0510	-.2670	-.0420	.4850	.3770	.1970
225.000	1.1440	.3540	.3530	-.8240	-.5880	-.0940	-.1520						.3130	.1300	.0220
270.000	1.1440	.3240	.2040	-.8690	-.5450	-.8110	-.1980	-.0320			-.2210	-.2160	.0670	.1540	.1410
315.000	1.1440	.1370	-.2140	-1.1980	-.7280	-.4200	-.0960						.3230	.2810	.2920

X/LS	.9670
PHI	
.000	.0540
45.000	.0530
90.000	.0300
135.000	.0660
180.000	.1050
225.000	-.0050
270.000	.0240
315.000	.2010

MACH (2) = .903 BETAT (6) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1400	.1140	-.1010	-1.1190	-.8340	-.2120	-.0380	-.0080	-.0190	-.0700	-.1740	-.0170	.3490	.4330	.3310
45.000	1.1400	.1220	-.0980	-1.1060	-.9110	-.0500							.2640	.2660	.1810
90.000	1.1400	.1320	-.0880	-1.1210	-.8280	-.1690	-.1710	-.1010	-.0790	-.1260	-.2210	.0580	.2400	.3030	.1770
135.000	1.1400	.2690	-.0060	-1.0800	-.5800	-.2300							.4080	.3520	.2120
180.000	1.1400	.3090	.1970	-.9450	-.4110	-.1580	-.2530	-.0700	-.0100	-.0810	-.2420	-.0470	.4970	.3430	.1940
225.000	1.1400	.3720	.3690	-.7930	-.4920	-.1010	-.1640						.3690	.1430	-.0240
270.000	1.1400	.3340	.2020	-.8670	-.5680	-.8430	-.1980	-.0310			-.2190	-.1910	.1200	.2040	.1210
315.000	1.1400	.1410	-.2060	-1.1940	-.7490	-.3880	-.0910						.3080	.3000	.2990

X/LS	.9670
PHI	
.000	.1880
45.000	.0080
90.000	.0080
135.000	.0440
180.000	.0790

AMES 11-7ft IA9 ORA + S3 + T9 SRM BOOSTER (RBMS04)

MACH (2) = .903 BETAT (6) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0550
270.000	-.0230
315.000	.2120

MACH (2) = .900 BETAT (7) = 6.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1300	.1070	-.1020	-1.1250	-.9340	-.1810	-.0340	.0020	-.0130	-.0690	-.1780	-.0100	.5450	.4710	.3480
45.000	1.1300	.1120	-.0970	-1.1120	-.9340	-.0400							.4440	.2480	.1050
90.000	1.1300	.1120	-.0970	-1.1330	-.8500	-.1540	-.1540	-.0820	-.0600	-.0990	-.2120	.0380	.2430	.2620	.1990
135.000	1.1300	.2400	-.0440	-1.1020	-.6230	-.2680							.2590	.3120	.1790
180.000	1.1300	.5020	.1890	-.9450	-.4330	-.1940	-.2850	-.0760	-.0200	-.0920	-.2430	-.0730	.4520	.2650	.1160
225.000	1.1300	.5890	.3850	-.7790	-.3790	-.1090	-.1660						.2470	-.0360	-.1110
270.000	1.1300	.3480	.2000	-.8710	-.5240	-.8450	-.2210	-.0320			-.2120	-.1790	.1320	.0930	-.0030
315.000	1.1300	.1420	-.1910	-1.1870	-.7630	-.3320	-.0720						.2800	.2930	.2940

X/LS .9670

PHI	
.000	.2020
45.000	-.0250
90.000	-.0420
135.000	.0550
180.000	.0560
225.000	-.0670
270.000	-.1510
315.000	.2080

MACH (2) = .898 BETAT (8) = 8.240

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1200	.0980	-.1060	-1.1250	-.7090	-.1780	-.0280	-.0080	-.0080	-.0630	-.1700	-.0020	.4930	.4560	.3480
45.000	1.1200	.1030	-.1050	-1.1090	-.7590	-.1040							.4950	.3570	.1910
90.000	1.1200	.0910	-.1320	-1.1340	-.8500	-.1590	-.1380	-.0880	-.0490	-.0840	-.2070	-.0030	.3020	.2200	.0880
135.000	1.1200	.2070	-.0860	-1.1140	-.6550	-.2620							.2190	.2360	.1210
180.000	1.1200	.4990	.1770	-.9370	-.4610	-.2350	-.3080	-.0850	-.0230	-.0810	-.2280	-.1360	.2780	.0860	.0470
225.000	1.1200	.5090	.3930	-.7570	-.2730	-.1150	-.1660						.0790	-.1210	-.1560

MACH (2) = .898 BETAT (8) = 8.240

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.1200	.3640	.1900	-.8680	-.6390	-.7750	-.1850	-.0280			-.2090	-.2230	.0880	.0280	-.1020
315.000	1.1200	.1490	-.1810	-1.1780	-.7690	-.2880	-.0680						.2220	.2560	.2930

X/LS	.9670
PHI	
.000	.1880
45.000	.0720
90.000	.0480
135.000	.0130
180.000	.0160
225.000	-.0740
270.000	-.2430
315.000	.2090

MACH (3) = 1.190 BETAT (1) = -8.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2840	.2920	.1240	-.6750	-.5620	-.3360	-.0640	-.1310	-.1490	-.0560	-.0580	-.2700	.0350	.0010	-.0260
45.000	1.2840	.3280	.1790	-.6460	-.4790	-.2780							-.0140	.2380	.1470
90.000	1.2840	.4670	.3130	-.5970	-.3300	-.0800	-.1780	-.1540	-.2520	-.0380	-.1800	-.3170	.1190	.5480	.3990
135.000	1.2840	.5970	.4090	-.5560	-.2240	.1120							.2170	.7440	.5050
180.000	1.2840	.6290	.4240	-.5440	-.1450	.2010	.1150	-.0380	-.0320	.2240	.0250	-.3980	.1520	.8280	.3330
225.000	1.2840	.5810	.4800	-.5160	-.3840	.1970	.1070						.0030	.1550	-.0100
270.000	1.2840	.4390	.4340	-.4540	-.8340	-.4600	-.0850	-.1840			-.1090	-.2900	-.0890	-.0640	.0720
315.000	1.2840	.3210	.0360	-.7450	-.8190	-.3550	-.1640						.0180	.0050	.0730

X/LS	.9670
PHI	
.000	-.0410
45.000	.0300
90.000	.0600
135.000	.3180
180.000	.3880
225.000	-.0390
270.000	.0910
315.000	.0300

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS04)

MACH (3) = 1.099 BETAT (2) = -6.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2780	.2800	.1230	-.6740	-.5850	-.2740	-.0400	-.1200	-.1520	-.0650	-.0800	-.2450	.0410	.0190	.0130
45.000	1.2780	.3000	.1680	-.6490	-.4960	-.2840							.0010	.2330	.1700
90.000	1.2780	.4250	.2790	-.6120	-.3630	-.1140	-.2050	-.1660	-.2780	-.0550	-.1920	-.3160	.1120	.5260	.3870
135.000	1.2780	.5720	.3890	-.5650	-.2380	.0670							.2090	.7130	.4810
180.000	1.2780	.6350	.4310	-.5360	-.1100	.1730	.0860	-.0580	-.0820	.1910	-.0180	-.3420	.1970	.5970	.3280
225.000	1.2780	.5880	.4930	-.4980	-.3520	.1760	.0820						.0590	.1320	-.0460
270.000	1.2780	.4270	.4190	-.4600	-.8220	-.4640	-.1040	-.1850			-.0670	-.2540	-.0890	-.0660	.0780
315.000	1.2780	.3020	.0240	-.7520	-.8160	-.3510	-.1570						.0430	.0360	.0960

X/LS	.9670
PHI	
.000	.0130
45.000	.0490
90.000	.0790
135.000	.3140
180.000	.3450
225.000	-.0090
270.000	.1130
315.000	.0390

MACH (3) = 1.101 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2730	.2620	.1250	-.6610	-.5620	-.2630	-.0230	-.1040	-.1530	-.0830	-.0660	-.2230	.0550	.0350	.0870
45.000	1.2730	.2800	.1630	-.6480	-.5050	-.2900							.0220	.2250	.1970
90.000	1.2730	.3990	.2490	-.6220	-.3920	-.1680	-.2080	-.1820	-.2820	-.0850	-.2120	-.3240	.1070	.4880	.3790
135.000	1.2730	.5410	.3640	-.5740	-.2520	.0270							.1830	.6720	.4590
180.000	1.2730	.6310	.4350	-.5270	-.0820	.1500	.0610	-.0820	-.1230	.1590	-.0560	-.3360	.2050	.5600	.3140
225.000	1.2730	.5910	.5100	-.4760	-.3170	.1560	.0710						.0910	.1050	-.0570
270.000	1.2730	.4120	.4070	-.4600	-.8050	-.4670	-.1060	-.1720			-.0360	-.2260	-.1000	-.0700	.0910
315.000	1.2730	.2800	.0140	-.7540	-.7860	-.3590	-.1440						.0790	.0740	.0910

X/LS	.9670
PHI	
.000	.0650
45.000	.0940
90.000	.1110
135.000	.2780
180.000	.3220

AMES 11-70? IA9 OEA + S3 + T9 SRM BOOSTER (RBMS04)

MACH (3) = 1.101 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0100
270.000	.1200
315.000	.0520

MACH (3) = 1.101 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2650	.2490	.1230	-.6390	-.5610	-.2480	-.0190	-.0970	-.1520	-.1090	-.0990	-.2090	.0940	.1010	.1250
45.000	1.2650	.2540	.1540	-.6520	-.5210	-.2730							.0420	.2230	.2250
90.000	1.2650	.3570	.1970	-.6380	-.4220	-.2040	-.2100	-.2190	-.2800	-.0830	-.2210	-.3090	.1180	.4540	.3660
135.000	1.2650	.5110	.3410	-.5850	-.2660	-.0610							.1970	.6220	.4330
180.000	1.2650	.6270	.4430	-.5220	-.0670	.1280	.0350	-.1210	-.1690	.1240	-.1210	-.3390	.2090	.5310	.2990
225.000	1.2650	.5880	.5270	-.4560	-.2730	.1470	.0680						.0990	.0540	-.0600
270.000	1.2650	.3790	.3930	-.4660	-.7870	-.5100	-.1320	-.1530			-.0720	-.2170	-.1040	-.0750	.0850
315.000	1.2650	.2470	.0100	-.7560	-.8130	-.3380	-.1510						.1370	.1140	.1350

X/LS .9670

PHI	
.000	.1150
45.000	.1220
90.000	.1240
135.000	.2540
180.000	.3000
225.000	-.0100
270.000	.1160
315.000	.1000

MACH (3) = 1.099 BETAT (5) = 2.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2420	.2070	.1400	-.6550	-.5390	-.1510	-.0290	-.0910	-.0900	-.0110	-.0300	-.1800	.3790	.3070	.2580
45.000	1.2420	.2240	.1550	-.6460	-.5180	-.2460							.1300	.2040	.2300
90.000	1.2420	.2830	.1570	-.6520	-.4520	-.2790	-.1640	-.2560	-.2420	-.0540	-.1420	-.1430	.1110	.2750	.3340
135.000	1.2420	.4350	.2760	-.6070	-.2600	-.2470							.1540	.4660	.3730
180.000	1.2420	.6010	.4330	-.5030	-.0470	-.1540	-.0310	-.2130	-.2870	.0570	-.1800	-.3370	.2040	.4700	.2830
225.000	1.2420	.5870	.5380	-.4190	-.1440	-.0720	.0330						.0880	.0330	-.0980

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7ft IA9 02A + S3 + T9 SRM BOOSTER (RBMS04)

MACH (3) = 1.099 BETAT (5) = 2.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.2420	.3420	.3940	-.4600	-.7320	-.6300	-.1980	-.1420			-.0810	-.2350	-.1170	-.0570	.0430
315.000	1.2420	.1980	.0330	-.7390	-.7870	-.3330	-.2250						.1450	.1540	.2360

X/LS	.9670
PHI	
.000	.1820
45.000	.1830
90.000	.1790
135.000	.2550
180.000	.2570
225.000	.0050
270.000	.0570
315.000	.2840

MACH (3) = 1.098 BETAT (6) = 4.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2190	.0980	.1400	-.6500	-.5330	-.1060	-.0490	-.0480	-.0920	.0090	-.0220	-.2350	.4290	.4620	.3970
45.000	1.2190	.1510	.1400	-.6490	-.5240	-.2280							.1920	.2540	.2440
90.000	1.2190	.2130	.1420	-.6630	-.4730	-.3030	-.1450	-.2550	-.2320	-.0190	-.0980	-.0420	.0920	.1810	.2950
135.000	1.2190	.3480	.2420	-.6220	-.2480	-.3190							.1340	.4480	.3220
180.000	1.2190	.5190	.4480	-.4880	-.0020	-.2090	-.0680	-.2680	-.3330	.0200	-.1580	-.3110	.2550	.4730	.2190
225.000	1.2190	.5000	.5420	-.4000	.0760	-.1720	.0250						.1470	.0410	-.0660
270.000	1.2190	.1840	.3870	-.4620	-.4700	-.6580	-.3140	-.1900			-.0860	-.2820	-.0820	-.0150	.0650
315.000	1.2190	.0470	.0620	-.7180	-.7350	-.2430	-.1650						.1370	.2050	.2360

X/LS	.9670
PHI	
.000	.3100
45.000	.1750
90.000	.1870
135.000	.2000
180.000	.2220
225.000	-.0970
270.000	.0380
315.000	.3010

AMES 11-707 IA9 02A + 33 + T9 SRM BOOSTER (RBHS04)

MACH (3) = 1.100 BETAT (7) = 6.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2290	.0890	.1390	-.6540	-.5330	-.0870	-.0600	-.0480	-.0710	.0130	-.0120	-.2700	.4230	.5310	.4240
45.000	1.2290	.1520	.1490	-.6520	-.5260	-.1690							.3730	.3710	.2550
90.000	1.2290	.1930	.1490	-.6740	-.4910	-.3290	-.1400	-.2440	-.2280	.0130	-.0850	-.1590	.1020	.2210	.2680
135.000	1.2290	.3220	.2070	-.6410	-.2800	-.3850							.0850	.3560	.2740
180.000	1.2290	.5250	.4560	-.4870	-.0440	-.2570	-.1060	-.3130	-.2460	.0350	-.1510	-.3000	.3610	.3280	.1270
225.000	1.2290	.4970	.6150	-.3360	.0680	-.1940	.0200						.2130	-.0700	-.1600
270.000	1.2290	.1760	.3675	-.4650	-.4970	-.6630	-.5540	-.2050			-.0600	-.2700	-.0800	.0030	.0380
315.000	1.2290	.0470	.0760	-.7120	-.6790	-.2530	-.1360						.1340	.2170	.2710

X/LS	.9670
PHI	
.000	.3380
45.000	.1770
90.000	.1370
135.000	.1600
180.000	.1870
225.000	-.1260
270.000	-.0330
315.000	.2820

MACH (3) = 1.098 BETAT (8) = 8.290

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2290	.0640	.1360	-.6660	-.5410	-.0960	-.0660	-.0310	-.0880	.0140	-.0180	-.2980	.4590	.5480	.4380
45.000	1.2290	.1420	.1370	-.6590	-.5410	-.1690							.4870	.5050	.3490
90.000	1.2290	.1820	.1090	-.6890	-.5010	-.3530	-.1480	-.2500	-.2530	.0450	-.0850	-.2580	.1850	.2700	.2180
135.000	1.2290	.3060	.1660	-.6660	-.3120	-.4560							.1120	.2800	.2270
180.000	1.2290	.5380	.4520	-.4880	-.0740	-.3020	-.1430	-.3530	-.0380	.0340	-.1780	-.2670	.3330	.1630	.0710
225.000	1.2290	.5010	.6370	-.3080	.0710	-.2090	.0200						.0960	-.1490	-.1800
270.000	1.2290	.1650	.3450	-.4740	-.5050	-.6520	-.5610	-.1960			-.0800	-.2820	-.0960	-.0710	-.0240
315.000	1.2290	.0130	.0750	-.7210	-.6520	-.2510	-.1270						.1110	.1670	.2240

X/LS	.9670
PHI	
.000	.3370
45.000	.2780
90.000	.2440
135.000	.1450
180.000	.1310

AMES 31-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS04)

MACH (3) = 1.098 BETAT (8) = 8.290

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.9670
PHI	
225.000	-.0900
270.000	-.0730
315.000	.2800

MACH (4) = 1.248 BETAT (1) = -8.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3670	.2940	.2040	-.4710	-.4020	-.4010	-.1900	-.1230	-.1550	-.1260	-.0150	-.2150	.0480	.0680	.0280
45.000	1.3670	.2900	.2660	-.4460	-.3470	-.2580							.0210	.2040	.1890
90.000	1.3670	.4230	.4010	-.3990	-.2320	-.0990	-.0830	-.1870	-.3190	-.1480	-.1470	-.2340	.0840	.4220	.4380
135.000	1.3670	.5570	.4910	-.3660	-.1600	.0340							.1100	.5930	.5830
180.000	1.3670	.5950	.4970	-.3620	-.1350	.1060	.2030	.0970	-.0760	-.0200	.1110	-.3050	.0270	.3580	.4710
225.000	1.3670	.5670	.5590	-.3400	-.2950	.2050	.2000						.0120	.1170	.1040
270.000	1.3670	.4560	.5630	-.2560	-.6410	-.3460	-.3450	-.0420			-.1550	-.2310	-.0570	-.0930	.0880
315.000	1.3670	.3400	.1250	-.5520	-.6420	-.4640	-.1070						.0300	.0080	.0500

X/LS	.9670
PHI	
.000	.0820
45.000	.0250
90.000	.1100
135.000	.3100
180.000	.4390
225.000	.2900
270.000	.1100
315.000	.0830

MACH (4) = 1.248 BETAT (2) = -8.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3380	.2930	.1890	-.4750	-.4110	-.4050	-.1190	-.1160	-.1490	-.1360	-.0250	-.1990	.0470	.0690	.0490
45.000	1.3580	.2090	.2460	-.4510	-.3630	-.2610							.0310	.1810	.1870
90.000	1.3580	.3510	.3650	-.4150	-.2620	-.1280	-.1170	-.2230	-.2270	-.1750	-.1390	-.2320	.0630	.3440	.4210
135.000	1.3580	.5050	.4670	-.3740	-.1760	.0035							.0850	.4090	.5770
180.000	1.3580	.5720	.5020	-.3560	-.1120	.0720	.1910	.0360	-.1200	-.0350	.0820	-.3210	.0730	.3210	.4490
225.000	1.3580	.5553	.5720	-.3300	-.2670	.1330	.1840						.0430	.1870	.0800

AMES 11-707 IA9 02A + S3 + T9 SRM BOOSTER (RBNS04)

MACH (4) = 1.246 BETAT (2) = -6.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3380	.4340	.5580	-.2590	-.6380	-.3740	-.3330	-.0890			-.0840	-.2280	-.0280	-.1000	.0870
315.000	1.3580	.3040	.0980	-.5870	-.6570	-.4890	-.1590						.0580	.0400	.0870

X/LS	.9870
PHI	
.000	.1300
45.000	.0780
90.000	.1110
135.000	.2970
180.000	.4190
225.000	.2760
270.000	.1140
315.000	.1240

MACH (4) = 1.244 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3460	.2040	.1790	-.4690	-.4100	-.4010	-.0760	-.0960	-.1470	-.1480	-.0210	-.2100	.0480	.0710	.0840
45.000	1.3480	.1380	.2340	-.4540	-.3730	-.2520							.0360	.1590	.1680
90.000	1.3460	.2930	.3320	-.4270	-.2940	-.1460	-.1630	-.2700	-.2480	-.1830	-.1410	-.2220	.0590	.2870	.4040
135.000	1.3460	.4620	.4360	-.3850	-.1920	-.0290							.0940	.3710	.5410
180.000	1.3460	.5560	.5040	-.3330	-.0860	.0430	.1760	.0000	-.1610	-.0750	.0300	-.3040	.0870	.3280	.4220
225.000	1.3460	.5520	.5850	-.3160	-.2330	.0780	.2180						.0610	.1730	.0110
270.000	1.3460	.4100	.5470	-.2640	-.6260	-.3970	-.1400	-.1110			-.0190	-.2050	-.0520	-.0900	.0300
315.000	1.3460	.2710	.0800	-.5690	-.6600	-.4850	-.1670						.1030	.0770	.0810

X/LS	.9870
PHI	
.000	.1840
45.000	.1090
90.000	.1350
135.000	.2840
180.000	.3990
225.000	.2550
270.000	.1130
315.000	.1530

AMES 11-7DT IA9 ORA + S3 + T9 SRM BOOSTER (RBNS04)

MACH (4) = 1.247 BETAT (4) = -2.020

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

W/L3	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
RW1															
.000	1.3340	.1590	.1820	-.4680	-.4100	-.3990	-.0570	-.0780	-.1590	-.1720	-.0890	-.2330	.0570	.0930	.1130
45.000	1.3340	.0980	.2090	-.4550	-.3810	-.2530							.0360	.1320	.1970
90.000	1.3340	.2350	.2790	-.4370	-.3090	-.1790	-.2010	-.2450	-.2580	-.1730	-.1450	-.2310	.0810	.2430	.3810
135.000	1.3340	.4180	.4140	-.3920	-.2040	-.0670							.0840	.3150	.5180
180.000	1.3340	.5370	.5100	-.3480	-.0530	.0140	.1610	-.0490	-.1950	-.0980	-.0190	-.2470	.0840	.2980	.5880
225.000	1.3340	.5470	.6060	-.2990	-.1980	.0450	.2000						.0660	.1360	-.0525
270.000	1.3340	.3870	.5347	-.2660	-.6170	-.4160	-.1740	-.1080			-.0190	-.2080	-.0920	-.1070	-.0170
315.000	1.3340	.2180	.0690	-.5740	-.6650	-.4120	-.1820						.1080	.0800	.0390

W/L3 .9879

RW1	
.000	.1940
45.000	.1270
90.000	.1610
135.000	.2720
180.000	.3590
225.000	.2240
270.000	.0960
315.000	.2180

MACH (4) = 1.249 BETAT (5) = 2.070

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

W/L3	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
RW1															
.000	1.3040	.1130	.1390	-.4080	-.4190	-.3780	-.0670	-.0300	-.0720	-.0470	-.0020	-.2330	.3490	.3580	.3150
45.000	1.3040	.0800	.1730	-.4690	-.3690	-.2430							.1050	.1770	.2280
90.000	1.3040	.1460	.1790	-.4890	-.5610	-.2310	-.2210	-.1850	-.2410	-.0870	-.1150	-.1920	.0750	.1840	.3290
135.000	1.3040	.3330	.3280	-.4270	-.2540	-.1090							.0820	.2070	.4820
180.000	1.3040	.5230	.4960	-.3980	-.0340	-.0590	.0990	-.1360	-.2840	.0850	-.0970	-.2780	.0420	.3720	.5400
225.000	1.3040	.3480	.6170	-.2980	-.1550	-.0740	.1740						.0690	.0770	-.0690
270.000	1.3040	.3220	.5030	-.2790	-.5940	-.4470	-.2870	-.1840			-.0310	-.2160	-.1070	-.0640	.0420
315.000	1.3040	.1480	.0930	-.5820	-.6630	-.3480	-.1330						.0730	.1590	.1540

W/L3 .9879

RW1	
.000	.2130
45.000	.1770
90.000	.1940
135.000	.2760
180.000	.3230

CASE #1 (M= 1) TABULATED PRESSURE DATA - 1694

SRM BOOSTER

MACH = 1.245 BETAT = 2.17D

SECTION (1):SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9398

PHI
.000 1.268 .049 .139 -.449 -.419 -.319 -.169 -.056 -.034 -.011 -.299 .219 .619 .419
45.000 1.246 .049 .169 -.469 -.389 -.219 .219 .239
90.000 1.268 .139 .169 -.479 -.369 -.249 -.149 -.219 -.049 -.189 .049 .169 .279
135.000 1.268 .219 .279 -.449 -.289 -.219 .119 .279 .439
180.000 1.284 .499 .469 -.359 -.149 .039 -.184 -.294 .022 -.159 -.229 .129 .299 .289
225.000 1.284 .319 .369 -.279 -.149 -.369 .159 .129 .299 -.084
270.000 1.268 .279 .399 -.279 -.379 -.459 -.279 -.199 -.022 -.229 -.799 -.349 .369
315.000 1.284 .099 .389 -.359 -.649 -.319 -.139 .049 .229 .299

X/LS .9677

PHI
.000 .3040
45.000 .2740
90.000 .2030
135.000 .2470
180.000 .2830
225.000 .1790
270.000 .0670
315.000 .3180

MACH (4) = 1.245 BETAT (7) = 6.17D

SECTION (1):SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9398

PHI
.000 1.2670 .0400 .1200 -.4880 -.4190 -.1690 -.0650 -.0300 -.0480 .0020 .0000 -.2340 .2300 .5230 .4650
45.000 1.2670 .0780 .1370 -.4740 -.3880 -.1980 .2950 .3840 .2980
90.000 1.2670 .0990 .1360 -.4810 -.3980 -.2620 -.1000 -.1710 -.2220 -.0240 -.0570 -.1810 .0770 .1440 .2640
135.000 1.2670 .2010 .2470 -.4660 -.2510 -.2930 .0240 .2010 .3540
180.000 1.2670 .4130 .4680 -.3270 .0610 -.1380 .0300 -.2010 -.3340 .0240 -.1260 -.2710 .1100 .5150 .2170
225.000 1.2670 .4760 .5620 -.2660 .2000 -.0700 .1240 .1860 .0810 -.1130

AMES 11-707 IA9 OEA + S3 + T9 3RM BOOSTER (RB49D4)

MACH (4) = 1.245 BETAT (7) = 6.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.2670	.2280	.4910	-.2350	-.2960	-.4760	-.2070	-.2290			-.0340	-.2300	-.0700	-.0270	.0170
315.000	1.2670	.0230	.0830	-.5520	-.6090	-.2750	-.1350						.0840	.2360	.1910

X/LS	.9670
PHI	
.000	.3430
45.000	.4000
90.000	.2650
135.000	.2280
180.000	.2300
225.000	.1020
270.000	.0290
315.000	.3170

MACH (4) = 1.245 BETAT (8) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2520	.0200	.1140	-.4910	-.4140	-.[illegible]	-.0870	-.0390	-.0160	-.0430	-.0610	-.2810	.2150	.3190	.3140
45.000	1.2520	.0700	.1420	-.4690	-.3850	-.1740							.2480	.5550	.4010
90.000	1.2520	.0750	.1380	-.4830	-.4070	-.2740	-.0980	-.1800	-.2250	-.0260	-.0590	-.1830	.1460	.2200	.2720
135.000	1.2520	.1510	.2120	-.4810	-.2640	-.3400							.0290	.1380	.3090
180.000	1.2520	.3460	.4660	-.3250	-.0030	-.1710	.0140	-.2570	-.3640	.0360	-.1730	-.2310	.1690	.3320	.1340
225.000	1.2520	.4425	.6330	-.2220	.1970	-.0760	.1340						.1130	-.0460	-.1270
270.000	1.2520	.2610	.4620	-.2750	-.3710	-.4800	-.1910	-.2590			-.0620	-.2500	-.1030	-.0750	-.0310
315.000	1.2520	.0470	.0840	-.5540	-.6020	-.3060	-.0850						.0130	.2260	.1900

X/LS	.9670
PHI	
.000	.3740
45.000	.4350
90.000	.3400
135.000	.2400
180.000	.2190
225.000	.0810
270.000	-.0050
315.000	.2810

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE DATA

PARAMETRIC DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHAT = -4.000 ORBINC = .900
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .600 BETAT (1) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0540	.0290	-.3580	-.7260	-.2070	-.0930	-.0690	-.0430	-.0520	-.0900	-.1510	-.0160	.2760	.2650	.1530
45.000	1.0540	.0450	-.3170	-.6650	-.2080	-.0980							.3470	.2640	.1280
90.000	1.0540	.1010	-.2630	-.5650	-.2040	-.1230	-.1030	-.0860	-.0920	-.1110	-.1440	.0280	.4110	.3050	.1450
135.000	1.0540	.2010	-.1680	-.5010	-.1760	-.1150							.4590	.3360	.1840
180.000	1.0540	.3330	-.0810	-.3590	-.1360	-.0780	-.0680	-.0500	-.0140	-.0740	-.1900	.0040	.4350	.3120	.1420
225.000	1.0540	.3600	-.0060	-.4100	-.1540	-.0730	-.0550						.3310	.2340	.0800
270.000	1.0540	.2150	-.1010	-1.2260	-.5530	-.3920	-.2440	-.1730			-.2580	-.0390	.1890	.2570	.1790
315.000	1.0540	.0650	-.4680	-1.0320	-.2800	-.1400	-.1160						.1920	.2640	.2280

X/LS	.9670
PHI	
.000	.0140
45.000	-.0210
90.000	-.0200
135.000	-.0180
180.000	.0170
225.000	.0110
270.000	.0360
315.000	.0790

MACH (1) = .900 BETAT (2) = 4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0450	.0090	-.3800	-.7870	-.2110	-.0900	-.0650	-.0370	-.0480	-.0770	-.1240	.0480	.4520	.3630	.2150
45.000	1.0450	.0180	-.3580	-.6990	-.1920	-.0870							.3160	.2240	.0980
90.000	1.0450	.0410	-.3500	-.6390	-.2160	-.1270	-.1020	-.0790	-.0710	-.0870	-.1100	.0670	.2330	.2420	.1060
135.000	1.0450	.1250	-.2480	-.5850	-.2350	-.1670							.3920	.2740	.1310
180.000	1.0450	.3090	-.1020	-.4070	-.1800	-.1220	-.1090	-.0820	-.0430	-.1070	-.1840	.0040	.4410	.2880	.1310
225.000	1.0450	.3960	.0250	-.4140	-.1650	-.0810	-.0690						.3910	.2140	.0320
270.000	1.0450	.2380	-.0860	-1.2920	-.5800	-.3980	-.2560	-.1790			-.2450	-.0260	.2330	.2380	.1240
315.000	1.0450	.0650	-.4470	-1.0420	-.2810	-.1490	-.1210						.3610	.3760	.2940

X/LS	.9670

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 CEA + S3 + T9 SRM BOOSTER (RBMSD9)

MACH (1) = .998 BETAT (2) = 4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.0390
45.000	.0060
90.000	-.0260
135.000	-.0420
180.000	-.0210
225.000	-.0230
270.000	-.0210
315.000	.1450

MACH (1) = .999 BETAT (3) = 6.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0340	.0090	-.3460	-.7520	-.2090	-.0990	-.0610	-.0390	-.0500	-.0770	-.1330	.0840	.4710	.3990	.2380
45.000	1.0340	.0060	-.3450	-.6790	-.1800	-.0820							.4350	.3020	.1910
90.000	1.0340	.0190	-.3450	-.6570	-.2090	-.1210	-.0890	-.0760	-.0650	-.0780	-.1010	.0580	.2530	.2090	.0880
135.000	1.0340	.0890	-.2900	-.6110	-.2510	-.1870							.2990	.2450	.1010
180.000	1.0340	.2890	-.1230	-.4340	-.2090	-.1450	-.1230	-.0990	-.0520	-.1160	-.1880	-.0200	.4230	.2480	.0850
225.000	1.0340	.4090	.0270	-.4120	-.1700	-.0890	-.0650						.3890	.1390	-.0220
270.000	1.0340	.2610	-.0780	-1.2070	-.5360	-.3760	-.2350	-.1740			-.2480	.0150	.3020	.2140	.1430
315.000	1.0340	.0800	-.4270	-.9550	-.2750	-.1390	-.1200						.3830	.3830	.3700

X/LS .9670

PHI	
.000	.0710
45.000	.0270
90.000	.0140
135.000	-.0290
180.000	-.0280
225.000	-.0470
270.000	-.0830
315.000	.1770

MACH (1) = .599 BETAT (4) = 8.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0220	-.0070	-.3480	-.7220	-.2110	-.0960	-.0610	-.0340	-.0370	-.0730	-.1390	.1110	.4470	.4230	.2690
45.000	1.0220	-.0060	-.3480	-.6700	-.1740	-.0690							.4280	.3100	.1520
90.000	1.0220	-.0050	-.3480	-.6540	-.2030	-.1150	-.0880	-.0770	-.0670	-.0750	-.1020	.0360	.3100	.1790	.0400
135.000	1.0220	.0570	-.3240	-.6410	-.2820	-.2080							.2390	.2070	.0790
180.000	1.0220	.2830	-.1310	-.4530	-.2310	-.1640	-.1390	-.1050	-.0580	-.1160	-.1900	-.0680	.3660	.1910	.0700
225.000	1.0220	.4190	.0490	-.3990	-.1610	-.0890	-.0650						.2290	.0060	-.0650
270.000	1.0220	.2750	-.0740	-1.1350	-.5130	-.3620	-.2330	-.1620			-.2690	.0390	.2070	.0840	-.0840
315.000	1.0220	.0840	-.3960	-.9090	-.2660	-.1410	-.1140						.3790	.3980	.3510

X/LS	.9670
PHI	
.000	.0880
45.000	.0000
90.000	.0000
135.000	-.0710
180.000	-.0560
225.000	-.0560
270.000	-.1810
315.000	.2060

MACH (2) = .903 BETAT (1) = -8.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1900	.1880	-.0500	-1.1110	-.5100	-.1710	-.0930	-.0700	-.0320	-.0630	-.1490	-.1020	.1070	.0340	-.0260
45.000	1.1900	.2330	.0040	-1.0640	-.7360	-.1520							.2710	.2150	.1070
90.000	1.1900	.3530	.0950	-1.0160	-.2860	-.0790	-.0990	-.0770	-.0350	-.0470	-.1760	.0090	.4880	.4320	.2980
135.000	1.1900	.4390	.1720	-.9910	-.0670	-.0040							.5700	.5010	.3420
180.000	1.1900	.4530	.1700	-.9870	-.0060	.0150	-.0200	-.0140	.0960	.1290	-.0580	-.0140	.4410	.3690	.1800
225.000	1.1900	.4280	.2290	-.9660	-.1320	-.0300	-.0280						.1790	.0560	-.0200
270.000	1.1900	.3330	.2960	-.8330	-.5100	-.6030	-.1920	-.0560			-.1730	-.2490	-.0020	.0500	.1240
315.000	1.1900	.2260	-.1100	-1.1620	-.6090	-.3150	-.0640						.0570	.0560	.0660

X/LS	.9670
PHI	
.000	-.0890
45.000	-.0140
90.000	-.0060
135.000	.1320
180.000	.1810

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNSD5)

MACH (2) = .903 BETAT (1) = -8.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.9670
PHI	
225.000	.2510
270.000	.0750
315.000	-.0170

MACH (2) = .901 BETAT (2) = -8.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1910	.1880	-.0540	-1.1080	-.5360	-.1590	-.0820	-.0610	-.0340	-.0650	-.1560	-.0810	.1400	.0820	.0170
45.000	1.1910	.2180	-.0080	-1.0690	-.7840	-.1300							.3030	.2430	.1290
90.000	1.1910	.3200	.0870	-1.0350	-.5670	-.0920	-.1140	-.0880	-.0510	-.0570	-.1880	.0170	.4810	.4210	.2790
135.000	1.1910	.4180	.1500	-1.0040	-.1670	-.0320							.5570	.4880	.3240
180.000	1.1910	.4590	.1710	-.9840	-.0730	-.0060	-.0490	-.0280	.0760	.1000	-.0850	-.0080	.4490	.3750	.1900
225.000	1.1910	.4450	.2420	-.9540	-.2670	-.0480	-.0530						.2010	.0660	-.0130
270.000	1.1910	.3400	.2980	-.8320	-.5840	-.5890	-.1970	-.0570			-.1570	-.2010	-.0350	.0090	.1270
315.000	1.1910	.2270	-.1120	-1.1600	-.6470	-.3510	-.0670						.0690	.0500	.0820

X/LS	.9670
PHI	
.000	-.0410
45.000	.0000
90.000	.0110
135.000	.1170
180.000	.1640
225.000	.0150
270.000	.0750
315.000	.0180

MACH (2) = .902 BETAT (3) = -8.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1920	.1880	-.0510	-1.0950	-.6690	-.1520	-.0690	-.0430	-.0340	-.0630	-.1320	-.0680	.1730	.1540	.0940
45.000	1.1920	.2110	-.0130	-1.0700	-.8120	-.1010							.3300	.2710	.1930
90.000	1.1920	.2900	.0550	-1.0490	-.6840	-.0950	-.1300	-.0900	-.0580	-.0700	-.1910	.0200	.4730	.4080	.2680
135.000	1.1920	.3900	.1260	-1.0180	-.3770	-.0599							.5340	.4660	.3060
180.000	1.1920	.4600	.1740	-.9800	-.2040	-.0260	-.0810	-.0330	.0360	.0860	-.1210	-.0050	.4470	.3790	.1940
225.000	1.1920	.4630	.2370	-.9360	-.6660	-.0590	-.0770						.2160	.0800	-.0050

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBWSO9)

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.1920	.3330	.2990	-.8290	-.5740	-.3610	-.1900	-.0440			-.1610	-.1720	-.0030	.0480	.1220
315.000	1.1920	.2250	-.1030	-1.1540	-.6540	-.3510	-.0630						.0770	.0700	.1050

X/LS .9879

PHI	
.000	.0110
45.000	.0110
90.000	.0260
135.000	.1060
180.000	.1480
225.000	.0100
270.000	.0890
315.000	.0680

MACH (2) = .901 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1930	.1880	-.0310	-1.0950	-.6710	-.1710	-.0580	-.0310	-.0290	-.0630	-.1620	-.0470	.1950	.2190	.1580
45.000	1.1930	.2000	-.0200	-1.0750	-.6330	-.0770							.3450	.3130	.1780
90.000	1.1930	.2640	.0110	-1.0620	-.7290	-.0960	-.1370	-.0830	-.0600	-.0790	-.2000	.0270	.4590	.4030	.2510
135.000	1.1930	.3700	.1020	-1.0290	-.5650	-.0800							.5170	.4530	.2890
180.000	1.1930	.4860	.1740	-.9780	-.4260	-.0440	-.1100	-.0410	.0420	.0360	-.1510	-.0060	.4530	.3890	.2040
225.000	1.1930	.4820	.2730	-.9210	-.7430	-.0670	-.0970						.2450	.1080	.0280
270.000	1.1930	.3890	.3010	-.8290	-.6230	-.5620	-.1870	-.0420			-.1720	-.1880	.0380	.0980	.1630
315.000	1.1930	.2290	-.1040	-1.1510	-.6930	-.3590	-.0710						.0940	.1320	.1810

X/LS .9879

PHI	
.000	.0303
45.000	.0610
90.000	.0570
135.000	.0950
180.000	.1330
225.000	.0590
270.000	.0940
315.000	.1130

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM309)

MACH (2) = .903 BETAT (5) = 2.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1840	.1780	-.0460	-1.1060	-.8360	-.1440	-.0300	-.0120	-.0130	-.0540	-.1490	-.0010	.2990	.3240	.2440
45.000	1.1840	.1790	-.0490	-1.0890	-.8750	-.0210							.2930	.2770	.2180
90.000	1.1840	.2120	-.0230	-1.0950	-.8030	-.0800	-.1190	-.0700	-.0440	-.0730	-.1790	.0890	.3480	.3710	.2240
135.000	1.1840	.3080	.0390	-1.0640	-.6260	-.1230							.4580	.4110	.2490
180.000	1.1840	.4590	.1640	-.9800	-.4350	-.0780	-.1830	-.0540	.0120	-.0250	-.1910	-.0190	.4700	.3840	.1990
225.000	1.1840	.5220	.2990	-.8970	-.6980	-.0730	-.1360						.3210	.1750	.0490
270.000	1.1840	.3920	.2990	-.8360	-.6490	-.5060	-.1660	-.0320			-.1900	-.1870	.0930	.1980	.1750
315.000	1.1840	.2300	-.0960	-1.1510	-.7060	-.3190	-.0620						.2590	.2590	.2880

X/LS	.9670
PHI	
.000	.1150
45.000	.0610
90.000	.0780
135.000	.1060
180.000	.1040
225.000	.0330
270.000	.0630
315.000	.2120

MACH (2) = .900 BETAT (6) = 4.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1740	.1670	-.0540	-1.1100	-.8360	-.1440	-.0330	-.0130	-.0110	-.0500	-.1540	-.0040	.4820	.4290	.3200
45.000	1.1740	.1680	-.0510	-1.0910	-.8880	-.0170							.3790	.3050	.1920
90.000	1.1740	.1830	-.0500	-1.1050	-.8310	-.0680	-.1050	-.0610	-.0350	-.0530	-.1660	.1030	.2450	.3000	.2010
135.000	1.1740	.2770	.0040	-1.0810	-.6420	-.1430							.3650	.3690	.2130
180.000	1.1740	.4510	.1570	-.9820	-.4670	-.0970	-.2120	-.0640	.0020	-.0530	-.1930	-.0290	.4760	.3530	.1590
225.000	1.1740	.5320	.3150	-.8750	-.6650	-.0730	-.1470						.3640	.1620	-.0020
270.000	1.1740	.4010	.2960	-.9350	-.6390	-.5420	-.1550	-.0340			-.1930	-.1800	.1410	.2320	.1540
315.000	1.1740	.2340	-.0900	-1.1480	-.7040	-.3050	-.0620						.2640	.2780	.2990

X/LS	.9670
PHI	
.000	.1820
45.000	.0580
90.000	.0400
135.000	.0690
180.000	.0780

AMES 11-707 IA9 02A + S3 + T9 SRM BOOSTER (RBNSDS)

MACH (2) = .900 BETAT (6) = 4.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0810
270.000	.0120
315.000	.2310

MACH (2) = .904 BETAT (7) = 6.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1670	.1630	-.0350	-1.1100	-.8500	-.1340	-.0280	-.0070	-.0060	-.0480	-.1470	.[illegible]00	.4670	.4370	.3320
45.000	1.1670	.1550	-.0360	-1.0890	-.7050	-.0480							.5200	.3900	.2380
90.000	1.1670	.1660	-.0580	-1.1170	-.8550	-.0600	-.1040	-.0560	-.0240	-.0490	-.1620	.0690	.2650	.2680	.1520
135.000	1.1670	.2480	-.0240	-1.0970	-.6580	-.1590							.2470	.3220	.1810
180.000	1.1670	.4410	.1490	-.9840	-.4760	-.1070	-.2370	-.0690	-.0040	-.0610	-.1980	-.0410	.4500	.2880	.1220
225.000	1.1670	.5470	.3260	-.8520	-.6300	-.0710	-.1490						.2830	.0170	-.0820
270.000	1.1670	.4100	.2970	-.8320	-.6340	-.4910	-.1470	-.0290			-.1880	-.1600	.1510	.1350	.0280
315.000	1.1670	.2410	-.0720	-1.1420	-.7060	-.2730	-.0460						.2560	.3070	.3160

X/LS .9670

PHI	
.000	.1840
45.000	.0960
90.000	.0930
135.000	.0120
180.000	.0470
225.000	-.0280
270.000	-.1080
315.000	.2320

MACH (2) = .899 BETAT (8) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1390	.1490	-.0800	-1.1090	-.7890	-.1330	-.0260	-.0090	-.0030	-.0440	-.1480	.0340	.4390	.4440	.3410
45.000	1.1390	.1430	-.0750	-1.0920	-.4790	-.1230							.5090	.4020	.2480
90.000	1.1390	.1450	-.0750	-1.1210	-.6370	-.0860	-.1040	-.0610	-.0290	-.0430	-.1950	.0290	.3610	.2450	.1130
135.000	1.1390	.2160	-.0620	-1.1090	-.6690	-.1690							.2390	.2980	.1290
180.000	1.1390	.4420	.1430	-.9710	-.4940	-.1070	-.2620	-.0710	-.0040	-.0510	-.1910	-.1090	.3330	.1270	.0900
225.000	1.1390	.5650	.3430	-.8160	-.5860	-.0650	-.1560						.1220	-.0910	-.1340

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RUN909)

MACH (2) = .899 BETAT (8) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.1990	.4190	.2870	-.8310	-.6110	-.4330	-.1500	-.0210			-.1850	-.1980	.0980	.0930	-.0790
315.000	1.1990	.2410	-.0670	-1.1340	-.7040	-.2570	-.0490						.2150	.2940	.3170

X/LS	.9670
PHI	
.000	.1830
45.000	.0940
90.000	.0910
135.000	-.0040
180.000	.0030
225.000	-.0170
270.000	-.2070
315.000	.2280

MACH (3) = 1.100 BETAT (1) = -8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3060	.3340	.1730	-.6580	-.5230	-.3450	.0110	-.0600	-.1120	-.0050	-.0240	-.2630	-.0030	.0830	.0480
45.000	1.3060	.3780	.2340	-.6190	-.4410	-.2580							.0630	.3130	.2230
90.000	1.3060	.4920	.3420	-.5790	-.3200	-.0750	-.0970	-.0680	-.1745	.0330	-.0620	-.2620	.1830	.5630	.4190
135.000	1.3060	.5660	.3950	-.5600	-.2650	.1140							.2290	.7250	.4920
180.000	1.3060	.5710	.3830	-.5620	-.2440	.2010	.1200	-.0170	-.0640	.2430	.0890	-.4270	.1380	.6130	.3390
225.000	1.3060	.5480	.4350	-.5460	-.4690	.2010	.1070						.0170	.1800	.0450
270.000	1.3060	.4710	.5080	-.4230	-.8530	-.4190	-.2550	-.2400			-.0550	-.2670	-.0300	.0120	.1380
315.000	1.3060	.3710	.1250	-.7020	-.7700	-.3010	.0420						.0550	.0600	.0930

X/LS	.9670
PHI	
.000	.0370
45.000	.1090
90.000	.1330
135.000	.3210
180.000	.3550
225.000	.0270
270.000	.1480
315.000	.0690

AMES 11-7ft IA9 OEA + S3 + T9 SRM BOOSTER (RBMS09)

MACH (3) = 1.097 BETAT (2) = -6.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2930	.3190	.1740	-.6580	-.5270	-.2940	.0140	-.0610	-.1020	-.0290	-.0370	-.2330	.0060	.1030	.1030
45.000	1.2980	.3530	.2230	-.6250	-.4570	-.2590							.0760	.3190	.2450
90.000	1.2980	.4520	.3130	-.5950	-.3540	-.1340	-.0990	-.0860	-.1920	.0140	-.0960	-.2720	.1620	.3210	.4150
135.000	1.2980	.5420	.3740	-.5710	-.2780	.0250							.2030	.6710	.4720
180.000	1.2980	.5720	.3880	-.5580	-.2200	.1460	.0960	-.0390	-.1020	.2100	.0200	-.3520	.1730	.5740	.3270
225.000	1.2980	.5550	.4460	-.5360	-.4460	.1520	.0840						.0580	.1710	.0180
270.000	1.2980	.4680	.4940	-.4290	-.8510	-.4370	-.2930	-.2460			-.0610	-.2550	-.0390	.0040	.1450
315.000	1.2980	.3590	.1160	-.7090	-.7760	-.3130	.0410						.0410	.0520	.1040

X/LS	.9670
PHI	
.000	.0850
45.000	.1310
90.000	.1580
135.000	.2770
180.000	.3340
225.000	.0220
270.000	.1750
315.000	.0900

MACH (3) = 1.101 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/L	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2960	.3080	.1780	-.6400	-.5220	-.2700	.0330	-.0390	-.0960	-.0380	-.0460	-.2020	.0340	.1370	.1780
45.000	1.2980	.3290	.2180	-.6270	-.4700	-.2430							.1150	.3140	.2820
90.000	1.2980	.4170	.2830	-.6070	-.3810	-.1570	-.0590	-.0940	-.1970	.0110	-.1160	-.2750	.1710	.4830	.4140
135.000	1.2980	.5150	.3560	-.5800	-.2980	-.0650							.2180	.6410	.4570
180.000	1.2980	.5710	.3940	-.5530	-.1830	.0310	.0800	-.0490	-.1460	.1800	-.0200	-.3120	.2130	.5420	.3180
225.000	1.2980	.5590	.4620	-.5210	-.4110	.0750	.0760						.1200	.1270	-.0140
270.000	1.2980	.4620	.4880	-.4280	-.8390	-.4650	-.3130	-.2200			-.0690	-.2080	-.0380	-.0020	.1320
315.000	1.2980	.3450	.1200	-.7070	-.7710	-.2930	.0420						.0410	.0860	.1260

X/LS	.9670
PHI	
.000	.1280
45.000	.1730
90.000	.1890
135.000	.2740
180.000	.3130

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER. (RBNSDS)

MACH (3) = 1.101 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9879

PHI	
225.000	.1910
270.000	.1790
315.000	.1240

MACH (3) = 1.099 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2880	.2940	.1780	-.6370	-.5230	-.2250	.0260	-.0330	-.0940	-.0470	-.0590	-.2020	.0770	.1740	.2310
45.000	1.2880	.3120	.2130	-.6320	-.4860	-.2200							.1440	.3180	.2090
90.000	1.2880	.3330	.2660	-.6210	-.4000	-.1620	-.0400	-.1280	-.2050	-.0080	-.1340	-.2490	.1960	.4710	.4090
135.000	1.2880	.4980	.3330	-.5920	-.3020	-.0970							.2310	.5900	.4310
180.000	1.2880	.5640	.3960	-.5520	-.1550	-.0460	.0550	-.0920	-.2010	.1430	-.0880	-.3200	.2230	.5220	.3020
225.000	1.2880	.5570	.4770	-.5070	-.3790	-.0230	.0610						.1260	.1040	-.0250
270.000	1.2880	.4430	.4790	-.4330	-.8260	-.5320	-.2730	-.2170			-.0860	-.2070	-.0370	.0240	.1500
315.000	1.2880	.3270	.1200	-.7110	-.7670	-.2590	.0200						.0700	.1050	.1490

X/LS .9879

PHI	
.000	.1800
45.000	.1800
90.000	.2090
135.000	.2670
180.000	.2950
225.000	.0260
270.000	.1320
315.000	.1510

MACH (3) = 1.101 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2620	.2410	.1880	-.6490	-.5000	-.1710	-.0010	-.0080	-.0780	.0100	-.0230	-.1720	.0380	.3690	.3150
45.000	1.2620	.2640	.1980	-.6350	-.4940	-.2050							.1900	.2550	.2750
90.000	1.2620	.3130	.1980	-.6390	-.4490	-.1990	-.0540	-.1630	-.2000	.0240	-.0870	-.1950	.1940	.3300	.3450
135.000	1.2620	.4140	.2850	-.6110	-.3210	-.2010							.2080	.4250	.3820
180.000	1.2620	.5200	.3980	-.5380	-.1320	-.1560	-.0040	-.1710	-.2710	.0820	-.1420	-.3210	.2100	.4330	.2780
225.000	1.2620	.5050	.4980	-.4710	-.2870	-.1350	.0320						.1240	.1090	-.0090

AMES 11-7ft TA9 CEA + S3 + T9 SRM BOOSTER (RBM3D3)

MACH (3) = 1.101 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.2620	.3430	.4940	-.4240	-.7970	-.6420	-.4620	-.1810			-.0690	-.2220	-.0350	.0320	.1110
315.000	1.2620	.2420	.1500	-.6920	-.7360	-.1870	-.0880						.1730	.1640	.2310

X/LS	.9670
PHI	
.000	.2310
45.000	.2300
90.000	.1990
135.000	.2350
180.000	.2350
225.000	.0230
270.000	.0830
315.000	.2600

MACH (3) = 1.102 BETAT (6) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2440	.1980	.3850	-.6490	-.4980	-.1360	-.0270	-.0160	[illegible]	.0020	-.0180	-.1990	[illegible]	[illegible]	[illegible]
45.000	1.2440	.2320	.1880	-.6420	-.5040	-.1900							.2390	[illegible]	[illegible]
90.000	1.2440	.2740	.1680	-.6500	-.4690	-.2180	-.0580	-.1770	[illegible]	.0230	-.0680	[illegible]	[illegible]	[illegible]	[illegible]
135.000	1.2440	.3570	.2510	-.6250	-.3490	-.2670							[illegible]	[illegible]	[illegible]
180.000	1.2440	.4880	.4030	-.5340	-.0950	-.2120	-.0310	-.1230	[illegible]	.0810	-.1230	[illegible]	[illegible]	[illegible]	[illegible]
225.000	1.2440	.4850	.4950	-.4780	-.0550	-.2030	.0080						[illegible]	[illegible]	[illegible]
270.000	1.2440	.2910	.3000	-.4230	-.7490	-.6690	-.3040	-.2070			-.1090	-.2230	[illegible]	[illegible]	[illegible]
315.000	1.2440	.1920	.1710	-.6780	-.7181	-.1830	-.0940						[illegible]	[illegible]	[illegible]

X/LS	.9670
PHI	
.000	.3100
45.000	.2220
90.000	.1900
135.000	.2080
180.000	.2310
225.000	-.0390
270.000	.0810
315.000	.2880

DATE 24 SEP 93 TABULATED PRESSURE DATA - IA9A

AMES 11-FT? IA9 OEA + SS + T9 SRM BOOSTER (RUN05)

MACH (3) = 1.100 BETAT (7) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3897	.4835	.5975	.7110	.8248	.8817	.9044	.9368
PHI															
.000	1.2380	.1329	.1850	-.8490	-.9040	-.1125	-.0330	-.0870	-.0820	.0080	-.0100	-.2000	.4080	.1983	.4390
45.000	1.2380	.1890	.1730	-.8420	-.9100	-.1480							.4470	.4330	.3440
90.000	1.2380	.2250	.1740	-.8800	-.4920	-.2380	-.0810	-.1750	-.1930	.0440	-.0490	-.1450	.1350	.2380	.2720
135.000	1.2380	.2980	.2280	-.8400	-.5280	-.5300							.1130	.5380	.2970
180.000	1.2380	.4290	.4100	-.5310	-.0370	-.2370	-.7810	-.2670	-.1820	.0320	-.1230	-.2800	.3250	.3880	.1480
225.000	1.2380	.4490	.4790	-.4700	.0320	-.2320	-.0030						.2540	-.7180	-.1380
270.000	1.2380	.2240	.4830	-.4280	-.4250	-.6820	-.4530	-.2580			-.0690	-.2420	-.0170	.0480	.0820
315.000	1.2380	.1190	.1930	-.8680	-.8680	-.1810	-.1290						.1240	.2090	.2330

X/LS	.9870
PHI	
.000	.3370
45.000	.2890
90.000	.2880
135.000	.1810
180.000	.1980
225.000	-.0890
270.000	-.0030
315.000	.2770

MACH (3) = 1.100 BETAT (8) = 8.270

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3897	.4835	.5975	.7110	.8248	.8817	.9044	.9368
PHI															
.000	1.2370	.1030	.1800	-.8900	-.9130	-.1040	-.0690	-.0180	-.0790	.0080	-.0050	-.1870	.4100	.9180	.4480
45.000	1.2370	.1810	.1800	-.8520	-.9200	-.1170							.5220	.5540	.3840
90.000	1.2370	.2050	.1610	-.8480	-.5050	-.2540	-.0720	-.1740	-.2580	.0590	-.0340	-.2210	.2690	.3480	.2800
135.000	1.2370	.2780	.1950	-.8540	-.3290	-.5970							.1290	.2980	.2430
180.000	1.2370	.4380	.4160	-.5170	-.0840	-.3050	-.6950	-.3190	-.0280	.0390	-.1210	-.2440	.3200	.2080	.0850
225.000	1.2370	.4490	.3540	-.3940	.0490	-.2340	-.0130						.1390	-.1180	-.1910
270.000	1.2370	.2120	.4480	-.4300	-.4800	-.6730	-.4560	-.2580			-.0680	-.2580	-.0310	-.0170	.0090
315.000	1.2370	.0940	.1870	-.8670	-.6290	-.1790	-.1550						.0830	.1910	.2270

X/LS	.9870
PHI	
.000	.3290
45.000	.2830
90.000	.2840
135.000	.1940
180.000	.1910

[illegible] BOOSTER (DEMO2B)

[illegible] BETAT (8) = [illegible]

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

[illegible]

PHI
[illegible]

MACH (4) = 1.243 BETAT (8) = -8.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3097	.4839	.5973	.7110	.8248	.8817	.9244	.9388
PHI															
[illegible]	1.3630	.3250	.2530	-.4480	-.3770	-.3710	-.0680	-.0220	-.2040	-.0830	.0130	-.2480	.0280	.0840	.0480
45.000	1.3630	.3220	.3130	-.4270	-.3110	-.2130							.0440	.2080	.2930
90.000	1.3630	.4510	.4290	-.3600	-.2370	-.0670	-.0440	-.1110	-.1170	-.0830	-.0910	-.1670	.1430	.4730	.4410
135.000	1.3630	.9030	.4870	-.3720	-.1910	-.0240							.1320	.3780	.5190
180.000	1.3630	.5870	.4480	-.3610	-.2480	.0130	.2220	.0980	-.0880	.0180	.1490	-.2680	.1140	.4130	.4890
225.000	1.3630	.3270	.3020	-.3770	-.3670	.1480	.2320						.0180	.1660	.1280
270.000	1.3630	.4030	.4220	-.2300	-.0540	-.2780	-.3390	-.0870			-.1580	-.2470	-.0330	-.0630	.1260
315.000	1.3630	.3890	.2130	-.3780	-.3940	-.3430	-.0130						.0560	.2080	.2890

X/LS .9870

PHI
.000 .1090
45.000 .0760
90.000 .1530
135.000 .3300
180.000 .4240
225.000 .2980
270.000 .1540
315.000 .1140

MACH (4) = 1.243 BETAT (8) = -8.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3097	.4839	.5973	.7110	.8248	.8817	.9244	.9388
PHI															
.000	1.3720	.2730	.2420	-.4450	-.3730	-.3760	-.0500	-.0320	-.1000	-.0840	.0120	-.1780	.0380	.0910	.0990
45.000	1.3720	.2240	.2990	-.4250	-.3250	-.2260							.0880	.2980	.2430
90.000	1.3720	.3500	.3920	-.3960	-.2450	-.1090	-.0920	-.1400	-.1350	-.1140	-.0480	-.1670	.1420	.4470	.4220
135.000	1.3720	.4520	.4490	-.3780	-.2020	-.0120							.1180	.5170	.5490
180.000	1.3720	.4950	.4580	-.3740	-.1840	.0250	.1850	.0650	-.0950	-.0420	.1130	-.2900	.0740	.3250	.4590
225.000	1.3720	.5150	.5150	-.3600	-.3430	.0450	.1880						.0480	.1800	.0920

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 SRM BOOSTER (RBMSD5)

MACH (4) = 1.245 BETAT (2) = -6.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9586
PHI															
270.000	1.3720	.4670	.6160	-.2330	-.6500	-.3480	-.2810	-.1120			-.0960	-.2200	-.0010	-.0410	.0950
315.000	1.3720	.3570	.2010	-.5160	-.6000	-.3630	-.0190						.0910	.0700	.1110

X/LS	.9670
PHI	
.000	.1100
45.000	.1100
90.000	.1830
135.000	.3180
180.000	.4070
225.000	.2850
270.000	.1720
315.000	.1280

MACH (4) = 1.245 BETAT (3) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9586
PHI															
.000	1.3620	.2220	.2300	-.4480	-.3740	-.3800	-.0250	-.0310	-.0990	-.0920	.0100	-.1650	.0430	.1050	.1180
													.1200	.2900	.2570
45.000	1.3620	.1580	.2830	-.4270	-.3350	-.2240							.1420	.3950	.4100
90.000	1.3620	.2880	.3500	-.4050	-.2700	-.1210	-.1240	-.0940	-.1620	-.1250	-.0520	-.1650	.1320	.4170	.5230
135.000	1.3620	.4060	.4310	-.3840	-.2130	-.0340							.1100	.3590	.4200
180.000	1.3620	.4760	.4660	-.3670	-.1650	.0050	.1330	.0190	-.1270	-.0610	.0680	-.2900	.0840	.1970	.0470
225.000	1.3620	.5190	.5380	-.3450	-.3180	.0270	.1590						-.0280	-.0580	.0920
270.000	1.3620	.4560	.6120	-.2330	-.6460	-.4140	-.0740	-.1400			-.0300	-.1950	.1270	.0780	.0980
315.000	1.3620	.3330	.1910	-.5150	-.6060	-.3660	-.0320								

X/LS	.9670
PHI	
.000	.1090
45.000	.1800
90.000	.1990
135.000	.3050
180.000	.3820
225.000	.2630
270.000	.1550
315.000	.1110

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

MACH (4) = 1.246 BETAT (4) = -2.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3490	.1680	.2240	-.4480	-.3820	-.3720	-.0070	-.0250	-.0860	-.0480	-.0080	-.1940	.0400	.1110	.1550
45.000	1.3490	.1110	.2670	-.4310	-.3430	-.2230							.1210	.2700	.2840
90.000	1.3490	.2260	.3300	-.4160	-.2870	-.1390	-.1560	-.0730	-.1750	-.1200	-.0580	-.1630	.1310	.3500	.3940
135.000	1.3490	.3480	.4080	-.3920	-.2240	-.0590							.1240	.3730	.4990
180.000	1.3490	.4660	.4680	-.3630	-.1380	-.0130	.1170	-.0250	-.1580	-.0780	.0170	-.2400	.1050	.3160	.3890
225.000	1.3490	.5125	.5550	-.3320	-.2770	.0160	.1730						.0810	.1500	-.0230
270.000	1.3490	.4430	.6040	-.2330	-.6290	-.4210	.0220	-.1650			-.0130	-.1900	-.0850	-.0910	.0930
315.000	1.3490	.3080	.1810	-.5180	-.6040	-.3470	-.0270						.1120	.0790	.0890

X/LS	.9670
PHI	
.000	.1230
45.000	.1920
90.000	.2200
135.000	.2990
180.000	.3620
225.000	.2290
270.000	.1350
315.000	.1270

MACH (4) = 1.243 BETAT (5) = 2.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3210	.1480	.2000	-.4780	-.3990	-.3550	-.0040	-.0360	-.0480	-.0490	.0110	-.1690	.3310	.3820	.3560
45.000	1.3210	.0980	.2210	-.4530	-.3680	-.2180							.1380	.2420	.3030
90.000	1.3210	.1870	.2180	-.4540	-.3500	-.1750	-.1410	-.0870	-.1860	-.0500	-.0430	-.1580	.1460	.2890	.3840
135.000	1.3210	.3050	.3260	-.4310	-.2810	-.1380							.1220	.2920	.4440
180.000	1.3210	.4500	.4430	-.3830	-.1320	-.0650	.1040	-.1070	-.2290	.0790	-.0680	-.2480	.0930	.2710	.3300
225.000	1.3210	.4940	.5480	-.3370	-.2330	-.0110	.1730						.0590	.1090	-.0150
270.000	1.3210	.3450	.5750	-.2510	-.6230	-.4400	-.1850	-.2710			-.0560	-.2010	-.0870	-.0030	.0860
315.000	1.3210	.2030	.1600	-.5330	-.6040	-.2620	-.0700						.0980	.1720	.1420

X/LS	.9670
PHI	
.000	.2550
45.000	.3100
90.000	.2590
135.000	.3050
180.000	.3310

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMSD5)

MACH (4) = 1.243 BETAT (5) = 2.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.2270
270.000	.1030
315.000	.3030

MACH (4) = 1.241 BETAT (6) = 4.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3010	.1370	.1910	-.4720	-.3950	-.3110	-.0240	-.0400	-.0410	-.0520	.0060	-.1800	.2640	.4740	.4220
													.3270	.3180	.3090
45.000	1.3010	.1070	.2040	-.4540	-.3670	-.2010							.1440	.2310	.3040
90.000	1.3010	.1210	.2030	-.4570	-.3580	-.1790	-.0790	-.0890	-.1730	-.0340	.0110	-.1360	.1340	.2860	.4050
135.000	1.3010	.2610	.2950	-.4420	-.2920	-.1780							.1290	.4300	.3060
180.000	1.3010	.4330	.4340	-.3870	-.1020	-.0970	.0900	-.1360	-.2550	.0720	-.0600	-.2160	.1290	.1730	-.0220
225.000	1.3010	.4920	.5570	-.3260	-.2040	-.0240	.1690								
270.000	1.3010	.3390	.5760	-.2480	-.6200	-.4490	-.1430	-.3130			-.0430	-.2010	-.0390	.0310	.1080
315.000	1.3010	.1910	.1650	-.5250	-.5970	-.2290	-.0680						.0970	.2160	.1850

X/LS .9670

PHI	
.000	.3190
45.000	.3730
90.000	.2710
135.000	.2320
180.000	.2900
225.000	.1880
270.000	.1060
315.000	.3230

MACH (4) = 1.244 BETAT (7) = 6.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2870	.1050	.1850	-.4700	-.3940	-.2170	-.0460	-.0370	-.0360	-.0140	.0210	-.2160	.2620	.4890	.4780
													.3380	.4720	.3890
45.000	1.2870	.1130	.1890	-.4530	-.3690	-.1710							.1370	.2140	.2970
90.000	1.2870	.1210	.1910	-.4640	-.3690	-.1820	-.0460	-.0930	-.1740	.0200	-.0100	-.1430	.0950	.1950	.3550
135.000	1.2870	.2140	.2630	-.4530	-.2890	-.2260							.1350	.4870	.2330
180.000	1.2870	.3890	.4280	-.3810	-.0740	-.1290	.0230	-.1440	-.2810	.0640	-.0880	-.2250	.1890	.0880	-.0690
225.000	1.2870	.4580	.5450	-.3050	-.1090	-.0690	.1040								

MACH (4) = 1.244 BETAT (7) = 6.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.2870	.2890	.3880	-.2410	-.5960	-.4700	-.1340	-.3280			-.0350	-.2080	-.0540	-.0130	.0340
313.000	1.2870	.1360	.1850	-.3130	-.5700	-.1810	-.0600						.0650	.2170	.0400

X/LS	.9670
PHI	
.000	.3340
45.000	.4100
90.000	.3390
135.000	.2580
180.000	.2640
225.000	.1180
270.000	.0300
313.000	.3260

MACH (4) = 1.247 BETAT (8) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2700	.0590	.1630	-.4760	-.3840	-.1350	-.0730	-.0280	-.0100	-.0420	.0010	-.2400	.2370	.5180	.5180
45.000	1.2700	.0950	.1590	-.4570	-.3700	-.1340							.3470	.5420	.4210
90.000	1.2700	.1140	.1630	-.4740	-.3830	-.1920	-.0490	-.0990	-.1730	-.0130	-.0210	-.1540	.2080	.2700	.2920
135.000	1.2700	.1600	.2280	-.4710	-.2890	-.2960							.0580	.1670	.3070
180.000	1.2700	.3090	.4350	-.3480	.0090	-.1710	-.0060	-.1740	-.2690	.0170	-.1090	-.2140	.1460	.3610	.1400
225.000	1.2700	.3910	.5310	-.3000	.1630	-.1060	.0940						.1350	-.0150	-.0980
270.000	1.2700	.2260	.5610	-.2450	-.3110	-.4870	-.1200	-.3100			-.0580	-.2390	-.0710	-.0350	-.0310
313.000	1.2700	.0690	.1980	-.4880	-.5390	-.1390	-.0940						.0160	.2090	-.0020

X/LS	.9670
PHI	
.000	.3680
45.000	.4330
90.000	.3480
135.000	.2510
180.000	.2240
225.000	.0830
270.000	.0020
313.000	.2780

AMES 11-707 IA9 OEA + 33 + 39 SRM BOOSTER (RBNSD6) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.9300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .599 BETAT (1) = -8.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0840	.1120	-.3050	-.6490	-.1930	-.0860	-.0610	-.0300	-.0550	-.0870	-.1980	-.1280	.2070	.1110	.0170
													.3420	.2380	.1160
45.000	1.0840	.1730	-.2050	-.5210	-.1900	-.0990							.5000	.3860	.2350
90.000	1.0840	.2670	-.1310	-.4030	-.1190	-.0440	-.0310	-.0260	-.0200	-.0360	-.0900	.0580	.5130	.3860	.2320
135.000	1.0840	.3070	-.0650	-.3670	-.0820	-.0150							.3780	.2550	.1000
180.000	1.0840	.2930	-.1070	-.3660	-.0780	-.0080	-.0060	.0080	.0500	.0370	-.1540	-.0550	.2540	.1770	.0590
225.000	1.0840	.2860	-.1150	-.4860	-.1200	-.0220	-.0120						.1140	.2190	.2100
270.000	1.0840	.2390	-.0380	-1.0150	-.3490	-.1960	-.1380	-.1140			-.2820	-.0180	.1020	.1660	.1010
315.000	1.0840	.1440	-.3990	-.8670	-.2110	-.0790	-.0420								

X/LS	.9679
PHI	
.000	-.0940
45.000	-.0320
90.000	-.0310
135.000	.0600
180.000	.0600
225.000	-.0310
270.000	.0630
315.000	-.0340

MACH (1) = .599 BETAT (2) = -8.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0840	.1050	-.3060	-.6570	-.1880	-.0850	-.0620	-.0440	-.0480	-.0850	-.1810	-.1020	.2450	.1650	.0820
													.3630	.2610	.1320
45.000	1.0840	.1490	-.2270	-.5420	-.1840	-.0910							.4810	.3670	.2140
90.000	1.0840	.2340	-.1790	-.4360	-.1380	-.0590	-.0400	-.0380	-.0350	-.0450	-.0950	.0560	.4980	.3680	.2180
135.000	1.0840	.2660	-.0920	-.3980	-.0980	-.0320							.3910	.2760	.1130
180.000	1.0840	.2940	-.1060	-.3760	-.0940	-.0230	-.0160	-.0090	.0350	.0150	-.1550	-.0340	.2660	.2010	.0770
225.000	1.0840	.2930	-.1080	-.4980	-.1330	-.0370	-.0270						.1340	.2390	.2090
270.000	1.0840	.2400	-.0350	-1.0370	-.3580	-.2050	-.1470	-.1170			-.2570	.0100	.1630	.1670	.1180
315.000	1.0840	.1390	-.3990	-.9040	-.2260	-.0900	-.0530								

X/LS	.9679

MACH (1) = .599 BETAT (2) = -6.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	-.0300
45.000	-.0110
90.000	-.0110
135.000	.0430
180.000	.0430
225.000	-.0130
270.000	.0620
315.000	-.0170

MACH (1) = .598 BETAT (3) = -4.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0850	.1040	-.3030	-.6860	-.1940	-.0880	-.0550	-.0410	-.0460	-.0800	-.1570	-.0740	.2780	.2100	.0970
45.000	1.0850	.1380	-.2360	-.5620	-.1830	-.0840							.3740	.2770	.1380
90.000	1.0850	.2010	-.1750	-.4630	-.1460	-.0670	-.0490	-.0470	-.0360	-.0510	-.0910	.0590	.4570	.3490	.1930
135.000	1.0850	.2350	-.1290	-.4330	-.1190	-.0470							.4750	.3570	.1970
180.000	1.0850	.2900	-.1210	-.3990	-.1100	-.0400	-.0310	-.0200	.0270	.0010	-.1570	-.0150	.4010	.2850	.1190
225.000	1.0850	.3050	-.1050	-.5070	-.1490	-.0540	-.0370						.2940	.2120	.0790
270.000	1.0850	.2500	-.0310	-1.0560	-.3670	-.2140	-.1470	-.1240			-.2130	-.0930	.1360	.2230	.2130
315.000	1.0850	.1420	-.3940	-.9050	-.2330	-.0990	-.0580						.1860	.1750	.1510

X/LS .9670

PHI	
.000	-.0280
45.000	-.0270
90.000	-.0220
135.000	.0260
180.000	.0260
225.000	.0160
270.000	.0770
315.000	.0140

AMES 11-737 IA9 CEA ◆ SS ◆ T9 SRM BOOSTER (RBHSD8)

MACH (1) = .800 BETAT (4) = -2.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0830	.0980	-.3060	-.6730	-.1900	-.0780	-.0530	-.0360	-.0400	-.0740	-.1450	-.0290	.3080	.2620	.1420
45.000	1.0830	.1200	-.2540	-.5950	-.1620	-.0640							.3800	.2940	.1470
90.000	1.0830	.1680	-.2540	-.5050	-.1620	-.0800	-.0590	-.0330	-.0410	-.0560	-.0910	.0570	.4350	.3340	.1730
135.000	1.0830	.2240	-.1590	-.4710	-.1420	-.0710							.4560	.3450	.1890
180.000	1.0830	.2830	-.1260	-.4170	-.1290	-.0590	-.0470	-.0330	.0070	-.0260	-.1550	-.0060	.4050	.2970	.1280
225.000	1.0830	.3120	-.0980	-.5140	-.1600	-.0630	-.0500						.3090	.2160	.0810
270.000	1.0830	.2580	-.0250	-1.0800	-.3720	-.2120	-.1510	-.1190			-.2090	-.0720	.1510	.2470	.2080
315.000	1.0830	.1490	-.3820	-.9060	-.2390	-.1060	-.0670						.2380	.2100	.2020

X/LS	.9670
PHI	
.000	.0070
45.000	.0060
90.000	.0070
135.000	.0180
180.000	.0170
225.000	.0090
270.000	.0610
315.000	.0610

MACH (1) = .800 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0840	.0910	-.3030	-.6790	-.1900	-.0810	-.0500	-.0310	-.0390	-.0660	-.1270	.0080	.3000	.2970	.1780
45.000	1.0840	.1000	-.2740	-.6040	-.1790	-.0780							.3570	.3000	.1520
90.000	1.0840	.1350	-.2730	-.5330	-.1670	-.0800	-.0600	-.0340	-.0440	-.0610	-.0920	.0630	.4070	.3220	.1570
135.000	1.0840	.1980	-.1810	-.5020	-.1570	-.0860							.4410	.3320	.1690
180.000	1.0840	.2800	-.1290	-.4270	-.1370	-.0730	-.0620	-.0460	-.0040	-.0480	-.1690	.0070	.4180	.3000	.1340
225.000	1.0840	.3280	-.0810	-.5090	-.1630	-.0720	-.0570						.3290	.2480	.0900
270.000	1.0840	.2670	-.0200	-1.0510	-.3750	-.2270	-.1500	-.1220			-.2370	-.0250	.2040	.2810	.1950
315.000	1.0840	.1490	-.3770	-.9120	-.2430	-.1090	-.0640						.2300	.2790	.2280

X/LS	.9670
PHI	
.000	.0900
45.000	.0040
90.000	.0040
135.000	.0040
180.000	.0040

AMES 11-7ft IA9 CEA + S3 + T9 SRM BOOSTER (RBMSD8)

MACH (1) = .600 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9679

PHI	
225.000	-.0280
270.000	.0930
315.000	.0810

MACH (1) = .601 BETAT (6) = 2.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0820	.0850	-.3010	-.6810	-.1950	-.0760	-.0530	-.0290	-.0360	-.0620	-.1180	.0290	.3520	.3400	.2090
													.2950	.2710	.1450
45.000	1.0820	.0810	-.3030	-.6310	-.1770	-.0740							.3300	.2840	.1430
90.000	1.0820	.1110	-.3000	-.5670	-.1790	-.0880	-.0650	-.0500	-.0440	-.0580	-.0860	.0710	.4090	.3100	.1580
135.000	1.0820	.1670	-.2140	-.5390	-.1820	-.1060							.4100	.2930	.1300
180.000	1.0820	.2680	-.1380	-.4510	-.1580	-.0920	-.0790	-.0610	-.0180	-.0670	-.1720	.0020	.3310	.2270	.0820
225.000	1.0820	.3330	-.0710	-.4860	-.1670	-.0850	-.0670						.2370	.2520	.1840
270.000	1.0820	.2770	-.0140	-1.1390	-.3580	-.2220	-.1500	-.1060			-.2390	-.0420	.2780	.3090	.2690
315.000	1.0820	.1570	-.3550	-.9020	-.2440	-.1140	-.0640								

X/LS .9679

PHI	
.000	.0480
45.000	.0050
90.000	.0010
135.000	-.0160
180.000	-.0080
225.000	-.0090
270.000	.0360
315.000	.1250

MACH (1) = .601 BETAT (7) = 4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0890	.0700	-.3030	-.6700	-.2000	-.0820	-.0570	-.0270	-.0300	-.0590	-.1100	.0580	.3980	.3690	.2310
													.4040	.3090	.1620
45.000	1.0890	.0810	-.3000	-.6400	-.1790	-.0700							.2650	.2340	.1090
90.000	1.0890	.0770	-.2980	-.5980	-.1780	-.0890	-.0850	-.0450	-.0410	-.0490	-.0740	.0750	.3260	.2780	.1340
135.000	1.0890	.1370	-.2420	-.5830	-.2010	-.1270							.4200	.2840	.1200
180.000	1.0890	.2370	-.1490	-.4470	-.1800	-.1150	-.0990	-.0710	-.0340	-.0760	-.1590	.0120	.4010	.2410	.0570
225.000	1.0890	.3500	-.0460	-.4500	-.1700	-.0810	-.0630								

AMES 11-7D7 1A9 OEA + S3 + T9 SRM BOOSTER (RBMS06)

MACH (1) = .601 BETAT (7) = 4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.0690	.2890	-.0030	-1.0860	-.3660	-.2230	-.1480	-.1070			-.2410	-.0160	.2670	.2830	.1660
315.000	1.0690	.1800	-.3370	-.8660	-.2420	-.1150	-.0650						.3100	.3510	.3100

X/LS .9679

PHI	
.000	.0690
45.000	.0080
90.000	.0060
135.000	-.0330
180.000	-.0230
225.000	-.0250
270.000	.0080
315.000	.1700

MACH (1) = .599 BETAT (8) = 6.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0620	.0630	-.2940	-.6780	-.2010	-.0960	-.0590	-.0340	-.0410	-.0590	-.0880	.0820	.3850	.3800	.2440
45.000	1.0620	.0450	-.3180	-.6540	-.1740	-.0750							.3780	.2970	.1370
90.000	1.0620	.0580	-.3140	-.6080	-.1760	-.0880	-.0580	-.0500	-.0460	-.0500	-.0690	.0570	.3380	.2190	.0730
135.000	1.0620	.1010	-.2820	-.6060	-.2170	-.1410							.2460	.2320	.0970
180.000	1.0620	.2340	-.1660	-.4530	-.2070	-.1330	-.1120	-.0840	-.0410	-.0840	-.1520	-.0070	.4050	.2610	.0950
225.000	1.0620	.3600	-.0450	-.4520	-.1750	-.0900	-.0720						.3600	.1600	.0110
270.000	1.0620	.3120	.0000	-1.0080	-.3500	-.2040	-.1310	-.0960			-.2210	-.0130	.2560	.1950	.0880
315.000	1.0620	.1710	-.3220	-.7910	-.2430	-.1090	-.0650						.3660	.4010	.3400

X/LS .9679

PHI	
.000	.0740
45.000	-.0100
90.000	-.0090
135.000	-.0510
180.000	-.0440
225.000	-.0420
270.000	-.0350
315.000	.1820

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

MACH (1) = .800 BETAT (9) = 8.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0500	.0480	-.3010	-.6850	-.2150	-.1050	-.0680	-.0430	-.0300	-.0630	-.0940	.1050	.4750	.4270	.2550
45.000	1.0500	.0240	-.3300	-.6660	-.1830	-.0820							.3170	.2570	.1080
90.000	1.0500	.0290	-.3320	-.6320	-.1730	-.0890	-.0630	-.0550	-.0530	-.0800	-.0710	.0470	.3490	.2110	.0550
135.000	1.0500	.0680	-.3130	-.6540	-.2370	-.1630							.2310	.2090	.0830
180.000	1.0500	.2250	-.1810	-.4860	-.2310	-.1580	-.1330	-.0990	-.0460	-.0810	-.1470	-.0280	.3810	.2110	.0580
225.000	1.0500	.3700	-.0270	-.4400	-.1830	-.1000	-.0720						.2810	.0510	-.0480
270.000	1.0500	.3210	.0020	-.9680	-.3440	-.2010	-.1220	-.0890			-.2490	-.0060	.2320	.1090	-.0140
315.000	1.0500	.1680	-.2960	-.7580	-.2410	-.1120	-.0670						.4350	.4220	.3520

X/LS	.9870
PHI	
.000	.0820
45.000	-.0190
90.000	-.0190
135.000	-.0750
180.000	-.0750
225.000	-.0750
270.000	-.1250
315.000	.2030

MACH (2) = .904 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2100	.2420	-.0110	-1.0920	-.5350	-.0930	-.0640	-.0360	-.0130	-.0330	-.1270	-.1300	.1660	.1120	.0490
45.000	1.2100	.2690	.0480	-1.0400	-.7160	-.0790							.3470	.2980	.1840
90.000	1.2100	.3780	.1350	-1.0060	-.4870	-.0220	-.0450	-.0300	.0120	.0170	-.1030	.0430	.5250	.4680	.3220
135.000	1.2100	.4110	.1530	-1.0030	-.1340	.0150							.5620	.4900	.3250
180.000	1.2100	.4000	.1300	-1.0100	-.1010	.0240	-.0260	-.0260	.0910	.1470	-.0220	-.0120	.4280	.3530	.1780
225.000	1.2100	.3970	.1790	-1.0050	-.2660	-.0150	-.0330						.1820	.0790	.0010
270.000	1.2100	.3680	.3500	-.8040	-.5690	-.3510	-.1420	-.0500			-.1570	-.2280	.0450	.0940	.1740
315.000	1.2100	.2860	-.0240	-1.1210	-.5830	-.2260	-.0300						.0840	.0340	.0830

X/LS	.9870
PHI	
.000	-.0300
45.000	.0340
90.000	.0550
135.000	.1540
180.000	.1840

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMSD6)

MACH (2) = .904 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	-.0030
270.000	.1290
315.000	.0160

MACH (2) = .901 BETAT (2) = -6.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2140	.2410	-.0040	-1.0820	-.8100	-.0960	-.0590	-.0360	-.0170	-.0420	-.1330	-.0980	.2060	.1650	.0880
													.3680	.3160	.1950
45.000	1.2140	.2750	.0400	-1.0420	-.7480	-.0600							.5070	.4490	.3010
90.000	1.2140	.3480	.0930	-1.0180	-.6350	-.0290	-.0700	-.0440	-.0040	.0000	-.1170	.0450	.5460	.4740	.3090
135.000	1.2140	.3910	.1360	-1.0100	-.3570	.0010							.4350	.3610	.1850
180.000	1.2140	.4050	.1330	-1.0040	-.2500	.0060	-.0490	-.0480	.0740	.1180	-.0530	-.0010	.2050	.0910	.0070
225.000	1.2140	.4120	.1910	-.9910	-.5650	-.0330	-.0530						.0330	.1040	.1780
270.000	1.2140	.3760	.3530	-.7990	-.5830	-.3640	-.1550	-.0570			-.1500	-.2060	.0840	.0490	.1090
315.000	1.2140	.2860	-.0210	-1.1130	-.6500	-.2450	-.0420								

X/LS .9870

PHI	
.000	-.0010
45.000	.0510
90.000	.0650
135.000	.1350
180.000	.1510
225.000	.0460
270.000	.1230
315.000	.0520

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2090	.2390	-.0040	-1.0810	-.8360	-.0920	-.0460	-.0270	-.0170	-.0420	-.1320	-.0660	.2490	.2380	.1480
													.3880	.3420	.2120
45.000	1.2090	.2800	.0280	-1.0520	-.7750	-.0380							.4910	.4330	.2760
90.000	1.2090	.3170	.0710	-1.0390	-.6820	-.0290	-.0730	-.0330	-.0130	-.0120	-.1210	.0590	.5230	.4580	.2860
135.000	1.2090	.3680	.1130	-1.0270	-.5430	-.0150							.4340	.3680	.1860
180.000	1.2090	.4080	.1330	-1.0060	-.4850	-.0060	-.0680	-.0520	.0570	.0870	-.0850	-.0020	.2280	.1070	.0150
225.000	1.2090	.4280	.2030	-.9830	-.8360	-.0350	-.0670								

AMES 11-7ft IA9 OEA + S3 + T9 SRM BOOSTER (RBM506)

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.2090	.3860	.3340	-.8020	-.5820	-.3550	-.1460	-.0590			-.1900	-.1600	.0620	.1220	.1780
315.000	1.2090	.2890	-.0210	-1.1160	-.6390	-.2460	-.0420						.1050	.0940	.1480

X/LS	.9670
PHI	
.000	.0430
45.000	.0690
90.000	.0700
135.000	.1220
180.000	.1330
225.000	.0500
270.000	.1120
315.000	.1040

MACH (2) = .901 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2120	.2380	-.0010	-1.0850	-.8480	-.0880	-.0380	-.0220	-.0140	-.0430	-.1340	-.0320	.2590	.2790	.2000
45.000	1.2120	.2470	.0190	-1.0580	-.7990	-.0150							.3910	.3860	.2250
90.000	1.2120	.2910	.0420	-1.0330	-.7270	-.0220	-.0790	-.0550	-.0140	-.0230	-.1280	.0650	.4590	.4250	.2610
135.000	1.2120	.3480	.0930	-1.0380	-.6340	-.0230							.5010	.4390	.2730
180.000	1.2120	.4090	.1330	-1.0090	-.3280	-.0140	-.0930	-.0550	.0430	.0530	-.1160	.0950	.4330	.3720	.1870
225.000	1.2120	.4410	.2170	-.9710	-.8380	-.0390	-.0860						.2480	.1300	.0270
270.000	1.2120	.4000	.3480	-.8010	-.6110	-.3520	-.1380	-.0540			-.1540	-.1680	.0640	.1520	.1810
315.000	1.2120	.2930	-.0120	-1.1120	-.6830	-.2560	-.0400						.1160	.1460	.1770

X/LS	.9670
PHI	
.000	.0950
45.000	.0880
90.000	.0850
135.000	.1080
180.000	.1190
225.000	.0480
270.000	.1040
315.000	.1330

AMES 11-7X7 IA9 OEA + S5 + T9 SRM BOOSTER (RBM5G0)

BETA = 2.000

DEPENDENT VARIABLE CP

					.1422	.1991	.2844	.3857	.4833	.5973	.7110	.8248	.8817	.9044	.9388
					-.0840	-.0930	-.0140	-.0080	-.0580	-.1280	.0010	.3480	.3870	.2980	
					-.0470	.0060							.2950	.3180	.2280
					-.0070	-.0180	-.0420	-.0160	-.0280	-.1250	.1020	.3220	.3850	.2590	
					-.0560	-.0590							.4270	.4000	.2430
					-.1580	-.0340	.0220	-.0030	-.1500	-.0080		.4310	.3480	.1990	
					-.0460	-.1280							.2990	.1480	.0580
					-.1320	-.0310					-.1800	-.1790	.1070	.1930	.1870
					-.0420								.2910	.2510	.2790

BETA = 6.130

DEPENDENT VARIABLE CP

[illegible]

[illegible]

[illegible]

AMES 11-FOOT TAS CEA + SS + TS SRM BOOSTER (RBMSD8)

MACH (2) = .904 BETAT (8) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.1840	.4540	.3610	-.7940	-.6400	-.2520	-.1090	-.0190			-.1900	-.1940	.1200	.0830	-.0260
315.000	1.1840	.3230	.0310	-1.0830	-.8430	-.1590	-.0290						.2680	.3340	.3410

X/LS .9670

PHI	
.000	.2320
45.000	.0800
90.000	.0380
135.000	-.0180
180.000	-.0130
225.000	-.0520
270.000	-.1670
315.000	.2480

MACH (3) = 1.099 BETAT (1) = -8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3160	.3830	.2200	-.6470	-.4940	-.3310	.0440	-.0290	-.0780	.0130	.0070	-.3410	.0310	.1940	.1310
45.000	1.3160	.4300	.2830	-.6060	-.4110	-.2290							.1360	.3890	.2920
90.000	1.3160	.5080	.3170	-.5770	-.3200	-.1040	.0170	.0020	-.1160	.0960	.0290	-.2050	.2590	.5760	.4410
135.000	1.3160	.5250	.3710	-.5770	-.3100	.0240							.2600	.6770	.4720
180.000	1.3160	.5120	.3380	-.5910	-.3280	.1620	.1220	.0030	-.0810	.2570	.1610	-.4260	.1560	.5750	.3230
225.000	1.3160	.5120	.3810	-.5890	-.5490	.1690	.1050						.0280	.1640	.0450
270.000	1.3160	.4950	.5530	-.4050	-.8630	-.2870	-.4680	-.2640			-.0260	-.2480	.0290	.0780	.1780
315.000	1.3160	.4180	.2170	-.6760	-.7220	-.2500	.0370						.0420	.0660	.1660

X/LS .9670

PHI	
.000	.1010
45.000	.1650
90.000	.2060
135.000	.3100
180.000	.3370
225.000	.1410
270.000	.1590
315.000	.1250

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 ORA • 53 • 79 SRM BOOSTER

MACH (3) = 1.100 BETAT (2) = -8.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9383
PHI															
.000	1.3130	.3710	.2230	-.6420	-.4990	-.2410	.0420	-.0170	-.0700	-.0060	-.0090	-.3070	.0850	.2390	.1970
													.1790	.4100	.3220
45.000	1.3130	.4050	.2710	-.6100	-.4290	-.2190									
90.000	1.3130	.4745	.2700	-.5890	-.3510	-.1140	.0410	-.0120	-.1320	.0700	.0030	-.2180	.2550	.5550	.4370
													.2530	.6300	.4640
135.000	1.3130	.5080	.3570	-.5690	-.3260	-.0480									
180.000	1.3130	.5150	.3490	-.5890	-.3100	.0540	.1060	-.0130	-.1140	.2250	.0850	-.3780	.2110	.5310	.3290
													.0720	.1570	.0270
225.000	1.3130	.5210	.3950	-.5770	-.5260	.0840	.0900								
270.000	1.3130	.4920	.5460	-.4080	-.8580	-.3100	-.3720	-.2540			-.0450	-.2100	.0200	.0650	.1940
													.0230	.0470	.1880
315.000	1.3130	.4120	.2080	-.6730	-.7220	-.2480	.0360								

X/LS	.9870
PHI	
.000	.1370
45.000	.1860
90.000	.2260
135.000	.3050
180.000	.3260
225.000	.1920
270.000	.1810
315.000	.1620

MACH (3) = 1.100 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3080	.3350	.2250	-.6300	-.4880	-.2600	.0550	-.0080	-.0590	-.0250	-.0190	-.2040	.1350	.2700	.2490
													.2280	.4140	.3440
45.000	1.3080	.3730	.2800	-.6110	-.4410	-.2150									
90.000	1.3080	.4360	.3100	-.6000	-.3810	-.1275	.0740	-.0310	-.1370	.0570	-.0250	-.2180	.2610	.5110	.4280
													.2900	.5810	.4470
135.000	1.3080	.4620	.3400	-.5900	-.3400	-.0830									
180.000	1.3080	.5110	.3530	-.5770	-.2860	-.0260	.1040	-.0370	-.1420	.1960	.0220	-.2970	.2370	.5150	.3140
													.1380	.1480	.0180
225.000	1.3080	.5250	.4100	-.5640	-.4960	-.0250	.0890								
270.000	1.3080	.4930	.5410	-.4060	-.8450	-.3790	-.3010	-.2390			-.0690	-.1850	-.0010	.0370	.2070
													.0140	.0270	.1880
315.000	1.3080	.4040	.2110	-.6690	-.7140	-.2350	.0330								

X/LS	.9870
PHI	
.000	.2030
45.000	.2070
90.000	.2100
135.000	.2910
.000	.3080

AMES 11-70T IA9 OEA + S3 + T9 SRM BOOSTER (RBNS06)

MACH (3) = 1.100 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.1080
270.000	.1930
315.000	.1970

MACH (3) = 1.099 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2980	.3500	.2280	-.6320	-.4820	-.2070	.0450	.0010	-.0610	-.0240	-.0330	-.1850	.1630	.3020	.3070
45.000	1.2980	.3610	.2450	-.6150	-.4500	-.1900							.2490	.4120	.3660
90.000	1.2980	.4010	.2840	-.6080	-.4040	-.1170	.0560	-.0570	-.1480	.0410	-.0500	-.2130	.2730	.4770	.4180
135.000	1.2980	.4370	.3220	-.5970	-.3570	-.0910							.2680	.5390	.4210
180.000	1.2980	.5020	.3530	-.5750	-.2640	-.0660	.0840	-.0740	-.1920	.1630	-.0260	-.3010	.2650	.4940	.2970
225.000	1.2980	.5220	.4200	-.5560	-.4700	-.0630	.0850						.1620	.1360	.0080
270.000	1.2980	.4820	.5390	-.4070	-.8370	-.4000	-.2620	-.2310			-.0860	-.1790	-.0020	.0750	.2070
315.000	1.2980	.3920	.2140	-.6710	-.7070	-.2230	.0210						.0240	.0920	.2070

X/LS .9670

PHI	
.000	.2430
45.000	.2470
90.000	.2470
135.000	.2830
180.000	.2830
225.000	.1780
270.000	.1630
315.000	.2200

MACH (3) = 1.101 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2800	.3110	.2320	-.6340	-.4810	-.1760	.0030	.0140	-.0620	-.0200	-.0190	-.1170	.2070	.3690	.3880
45.000	1.2800	.3160	.2290	-.6140	-.4700	-.1810							.2040	.2860	.3170
90.000	1.2800	.3440	.2350	-.6260	-.4460	-.1420	.0250	-.0930	-.1620	.0460	-.0370	-.1600	.2390	.4090	.3820
135.000	1.2800	.3970	.2640	-.6150	-.3720	-.1640							.2640	.4420	.3800
180.000	1.2800	.4690	.3510	-.5720	-.2240	-.1440	.0330	-.1460	-.2410	.0960	-.0990	-.2820	.2580	.3930	.2480
223.000	1.2800	.4860	.4390	-.5260	-.4130	-.1120	.0470						.1720	.1290	.0160

MACH (3) = 1.101 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.2800	.4160	.3490	-.3950	-.8170	-.4420	-.3140	-.2150			-.0700	-.1890	.0120	.0820	.1430
315.000	1.2800	.3410	.2320	-.6560	-.6740	-.1500	-.0350						.1110	.1650	.2240

X/LS	.9670
PHI	
.000	.2970
45.000	.2680
90.000	.2320
135.000	.2500
180.000	.2490
225.000	.0380
270.000	.1100
315.000	.2610

MACH (3) = 1.100 BETAT (6) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2670	.2600	.2300	-.6350	-.4530	-.1510	-.0290	.0030	-.0750	.0090	-.0100	-.1360	.3470	.4470	.4170
45.000	1.2670	.2750	.2150	-.6170	-.4810	-.1680							.4320	.4660	.3770
90.000	1.2670	.3000	.2170	-.6340	-.4630	-.1440	.0180	-.1080	-.1820	.0610	-.0240	-.1550	.2280	.3250	.3110
135.000	1.2670	.3420	.2560	-.6250	-.3800	-.2060							.2350	.3620	.3230
180.000	1.2670	.4340	.3510	-.5600	-.2180	-.1830	.0140	-.1850	-.2710	.0810	-.1000	-.2480	.2540	.4110	.2420
225.000	1.2670	.4500	.4510	-.5130	-.3550	-.1040	.0310						.1730	.1330	.0050
270.000	1.2670	.3410	.5610	-.5900	-.8080	-.4840	-.3130	-.2170			-.0600	-.1930	.0220	.0770	.1330
315.000	1.2670	.2810	.2515	-.6370	-.6530	-.1430	-.0720						.1190	.2150	.2640

X/L?	.9670
PHI	
.000	.3240
45.000	.2980
90.000	.2840
135.000	.2050
180.000	.2030
225.000	.0100
270.000	.0940
315.000	.2900

MACH (3) = 1.100 BETAT (7) = 6.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2440	.2230	.2290	-.6350	-.4520	-.1430	-.0620	-.0060	-.0850	.0010	.0070	-.1370	.3320	.5000	.4620
45.000	1.2440	.2450	.1990	-.6340	-.4880	-.1300							.4720	.4730	.3630
90.000	1.2440	.2610	.1990	-.6440	-.4760	-.1470	.0030	-.1140	-.1850	.0540	-.0040	-.1850	.2800	.3360	.2840
135.000	1.2440	.3020	.2300	-.6350	-.4020	-.2560							.1940	.3090	.2800
180.000	1.2440	.3940	.3580	-.5610	-.1810	-.2410	-.0050	-.2200	-.1620	.0780	-.0910	-.2510	.2800	.3710	.1390
225.000	1.2440	.4220	.4440	-.5250	-.2450	-.2210	.0040						.2490	.0150	-.1080
270.000	1.2440	.3020	.5670	-.3890	-.7820	-.4470	-.2860	-.2200			-.0490	-.2170	.0240	.0800	.0870
315.000	1.2440	.2350	.2760	-.6270	-.6160	-.1480	-.1020						.1080	.2580	.3170

X/LS	.9670
PHI	
.000	.3400
45.000	.2480
90.000	.2480
135.000	.1540
180.000	.1720
225.000	.0090
270.000	.0470
315.000	.2910

MACH (3) = 1.101 BETAT (8) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2530	.1420	.2290	-.6330	-.4610	-.1310	-.0860	-.0150	-.0700	-.0080	.0210	-.1030	.3390	.5530	.4890
45.000	1.2530	.1680	.1850	-.6400	-.4940	-.0750							.3700	.4810	.3650
90.000	1.2530	.2040	.1850	-.6510	-.4890	-.1560	-.0110	-.1240	-.2130	.0490	.0080	-.1940	.3820	.3690	.2720
135.000	1.2530	.2260	.2100	-.6440	-.3870	-.3200							.1620	.2880	.2260
180.000	1.2530	.3360	.3620	-.5530	-.0590	-.2900	-.0220	-.2580	-.0270	.0820	-.0910	-.2100	.2910	.2320	.0820
225.000	1.2530	.3820	.4190	-.5240	.0460	-.2700	-.0200						.1680	-.1010	-.1210
270.000	1.2530	.2520	.5460	-.3930	-.4290	-.3240	-.2760	-.2280			-.0590	-.2390	.0110	.0280	.0290
315.000	1.2530	.1690	.2880	-.6150	-.5700	-.1250	-.1210						.1450	.2610	.2890

X/LS	.9670
PHI	
.000	.3500
45.000	.2930
90.000	.2450
135.000	.1740
180.000	.1370

AMES 11-707 IA9 O2A + S3 + T9 SRM BOOSTER (RBMS06)

MACH (3) = 1.101 BETAT (8) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9570

PHI	
225.000	-.0020
270.000	-.0090
315.000	.2670

MACH (4) = 1.248 BETAT (1) = -8.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3910	.3640	.3040	-.4370	-.3430	-.3530	-.0340	.0430	-.0270	-.0460	.0280	-.2310	.0340	.1470	.0920
45.000	1.3910	.3710	.3860	-.4030	-.2800	-.1810							.0940	.3220	.2880
90.000	1.3910	.4370	.4390	-.3780	-.2140	-.1000	-.0210	.0240	-.0420	-.0370	.0370	-.1080	.2080	.4840	.4490
135.000	1.3910	.4570	.4380	-.3780	-.2260	-.0520							.1710	.5710	.5200
180.000	1.3910	.4530	.3980	-.4010	-.2640	-.0630	.2050	.0630	-.0390	.1540	.1800	-.2610	.0120	.4610	.4410
225.000	1.3910	.4870	.4350	-.4100	-.4280	.0760	.2190						.0370	.1750	.1190
270.000	1.3910	.4950	.6530	-.2150	-.6560	-.2420	-.3210	-.1470			-.1730	-.2110	.0100	-.0110	.1130
315.000	1.3910	.4240	.3030	-.4690	-.5380	-.2760	.0180						.0340	.0370	.1210

X/LS .9670

PHI	
.000	.1210
45.000	.0770
90.000	.2160
135.000	.3550
180.000	.4030
225.000	.2910
270.000	.1780
315.000	.1750

MACH (4) = 1.248 BETAT (2) = -6.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3820	.3190	.2970	-.4370	-.3500	-.3440	-.0090	.0270	-.0420	-.0510	.0220	-.2 10	.0740	.1850	.1320
45.000	1.3820	.2730	.3480	-.4090	-.2970	-.1910							.1190	.5320	.2940
90.000	1.3820	.3510	.4100	-.3920	-.2380	-.1100	-.0630	.0240	-.0590	-.0810	.027.	-.1 0	.2020	.4630	.427
135.000	1.3820	.3970	.4270	-.3920	-.2380	-.0460							.1530	.5220	.5060
180.000	1.3820	.4210	.4080	-.3920	-.2440	-.0290	.1080	.0510	-.0730	.037	.1510	-.2730	.0940	.3870	.447
.000	1.3820	.4690	.4550	-.3970	-.4070	-.0090	.1020						.0770	.2030	.071

AMES 11-707 IA9 02A + S5 + T9 SRM BOOSTER (RBMS08)

MACH (4) = 1.248 BETAT (2) = -6.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3820	.4800	.6510	-.2160	-.6550	-.2220	-.3970	-.3060			-.1220	-.1770	.0200	-.0510	.1220
315.000	1.3820	.4010	.2900	-.4740	-.5460	-.2950	.0390						.0320	.0400	.1460

X/LS	.9670
PHI	
.000	.1510
45.000	.2290
90.000	.2500
135.000	.3420
180.000	.3870
225.000	.2730
270.000	.1810
315.000	.1910

MACH (4) = 1.248 BETAT (3) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3710	.2570	.2910	-.4350	-.3460	-.3460	.0130	.0160	-.0430	-.0510	.0260	-.1950	.1030	.2130	.1660
45.000	1.3710	.1920	.3340	-.4110	-.3080	-.1970							.1580	.3520	.3020
90.000	1.3710	.2720	.3620	-.3980	-.2620	-.1150	-.1020	.0240	-.0860	-.0730	.0280	-.1030	.2050	.4420	.4140
135.000	1.3710	.3240	.4070	-.3930	-.2430	-.0490							.1470	.4580	.4950
180.000	1.3710	.3900	.4150	-.3880	-.2240	-.0260	.0500	.0210	-.1060	-.0200	.1170	-.2790	.1230	.3720	.4120
225.000	1.3710	.4820	.4710	-.3840	-.3840	-.0590	.0410						.1020	.2220	.0370
270.000	1.3710	.4730	.6500	-.2150	-.6450	-.2870	-.1680	-.2590			-.0970	-.1650	.0180	-.0750	.1180
315.000	1.3710	.3840	.2860	-.4750	-.5460	-.2860	.0490						.0290	.0190	.1390

X/LS	.9670
PHI	
.000	.1410
45.000	.2740
90.000	.2580
135.000	.3300
180.000	.3730
225.000	.2530
270.000	.1780
315.000	.2070

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

MACH (4) = 1.248 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3570	.1710	.2840	-.4370	-.3450	-.3420	.0170	.0040	-.0380	-.0520	.0270	-.1790	.1110	.2110	.2540
45.000	1.3570	.1490	.3110	-.4140	-.3140	-.2010							.1760	.3510	.3190
90.000	1.3570	.2190	.3130	-.4060	-.2780	-.1200	-.1380	.0160	-.1060	-.0740	.0200	-.1040	.1960	.4200	.4020
135.000	1.3570	.2550	.3890	-.4060	-.2460	-.0630							.1420	.4510	.4740
180.000	1.3570	.3030	.4200	-.3830	-.2100	-.0380	.0640	-.0170	-.1340	-.0190	.0380	-.2880	.1120	.3420	.3810
225.000	1.3570	.4650	.4870	-.3710	-.3600	-.0650	.0800						.0980	.1900	-.0090
270.000	1.3570	.4710	6450	-.2130	-.6380	-.2840	-.5010	-.2760			-.0680	-.1770	.0140	-.0560	.1190
315.000	1.3570	.3850	.2780	-.4730	-.3450	-.2550	.0430						.0170	.0520	.1470

X/LS	.9670
PHI	
.000	.2260
45.000	.2950
90.000	.3130
135.000	.3260
180.000	.3560
225.000	.2310
270.000	.1660
315.000	.2290

MACH (4) = 1.248 BETAT (5) = 2.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3320	.1630	.2600	-.4410	-.3590	-.3160	.0060	-.0190	-.0250	-.0490	.0180	-.1310	.1710	.3210	.3900
45.000	1.3320	.0790	.2670	-.4240	-.3360	-.1980							.1420	.2280	.2950
90.000	1.3320	.1270	.2840	-.4270	-.3180	-.1400	-.1140	-.0120	-.1270	-.0470	.0160	-.1060	.1800	.3530	.3790
135.000	1.3320	.2190	.3330	-.4180	-.2860	-.1220							.1790	.4190	.4420
180.000	1.3320	.4340	.4100	-.3850	-.2050	-.0860	.0600	-.0580	-.1940	.1030	-.0270	-.2130	.1180	.3030	.3150
225.000	1.3320	.5080	.5070	-.3570	-.3240	-.0580	.1220						.0880	.1401	.0020
270.000	1.3320	.4710	.6320	-.2190	-.6230	-.3110	-.0700	-.2980			-.0530	-.1900	-.0340	.0270	.0440
315.000	1.3320	.3660	.2670	-.4740	-.5380	-.2040	.0090						.0940	.1550	.1300

X/LS	.9670
PHI	
.000	.2770
45.000	.3560
90.000	.2780
135.000	.3030
[illegible]000	.3240

AMES 11-707 IA9 OPA + S3 + T9 SRM BOOSTER (RBMS06)

MACH (4) = 1.248 BETAT (5) = 2.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.2040
270.000	.1280
315.000	.2760

MACH (4) = 1.247 BETAT (6) = 4.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3160	.1990	.2450	-.4460	-.3560	-.2840	-.0170	-.0330	-.0220	-.0550	.0080	-.1290	.2430	.4030	.4390
45.000	1.3160	.1140	.2410	-.4330	-.3430	-.1920							.3740	.4470	.4080
90.000	1.3160	.1200	.2420	-.4370	-.3330	-.1370	-.0800	-.0190	-.1240	-.0190	.0330	-.0940	.2020	.3230	.3440
135.000	1.3160	.2370	.3000	-.4300	-.3030	-.1410							.1740	.3000	.3720
180.000	1.3160	.3620	.3960	-.3920	-.1760	-.0940	.0060	-.0790	-.2140	.0820	-.0300	-.2040	.1470	.3795	.2980
225.000	1.3160	.4370	.5100	-.3470	-.2870	-.0380	.0550						.1300	.1860	-.0170
270.000	1.3160	.3670	.6380	-.2140	-.6180	-.3370	-.0440	-.3360			-.0490	-.1860	-.0070	.0530	.1320
315.000	1.3160	.2700	.2750	-.4690	-.5270	-.1470	-.0070						.0960	.2220	.1370

X/LS .9670

PHI	
.000	.2550
45.000	.3820
90.000	.3550
135.000	.2860
180.000	.2790
225.000	.1840
270.000	.1340
315.000	.3040

MACH (4) = 1.248 BETAT (7) = 6.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3010	.1710	.2490	-.4490	-.3630	-.2040	-.0510	-.0400	-.0240	-.0460	.0210	-.1590	.2140	.4100	.4980
45.000	1.3010	.1120	.2240	-.4410	-.3500	-.1660							.3510	.4330	.4040
90.000	1.3010	.1030	.2260	-.4430	-.3410	-.1360	-.0640	-.0320	-.1380	.0240	.0200	-.1060	.2120	.3000	.3180
135.000	1.3010	.1970	.2740	-.4390	-.3050	-.1730							.1440	.2490	.3380
180.000	1.3010	.3350	.3910	-.3920	-.1540	-.1250	-.0290	-.0910	-.2400	.0740	-.0460	-.2030	.1310	.3910	.2540
225.000	1.3010	.4200	.5090	-.3420	-.2430	-.0410	.0940						.1430	.0920	-.0300

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMSD8)

MACH (4) = 1.248 BETAT (7) = 6.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3010	.3420	.8380	-.2120	-.6090	-.3560	-.0340	-.3250			-.0160	-.2020	-.0230	.0250	.0900
315.000	1.3010	.2450	.2880	-.4580	-.5060	-.1030	-.0380						.0830	.2370	.0930

X/LS	.9670
PHI	
.000	.3620
45.000	.4760
90.000	.3370
135.000	.2690
180.000	.2500
225.000	.1200
270.000	.0910
315.000	.3330

MACH (4) = 1.248 BETAT (8) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2810	.1240	.2210	-.4530	-.3450	-.1410	-.0680	-.0320	.0060	-.0570	.0110	-.1680	.2270	.4720	.5520
45.000	1.2810	.1170	.1870	-.4520	-.3570	-.1350							.2350	.3880	.3810
90.000	1.2810	.1260	.1890	-.4550	-.3540	-.1220	-.0700	-.0530	-.1460	.0030	.0120	-.1220	.2930	.3240	.2940
135.000	1.2810	.1580	.2370	-.4540	-.3050	-.2220							.1050	.2340	.2880
180.000	1.2810	.2870	.3880	-.3860	-.1220	-.1590	-.0100	-.1070	-.2250	.0720	-.0560	-.1830	.1490	.3480	.1260
225.000	1.2810	.3730	.4970	-.3320	-.1110	-.0970	.1200						.1480	-.0050	-.1310
270.000	1.2810	.2760	.6330	-.2100	-.5920	-.4000	-.0790	-.2790			-.0510	-.2320	-.0490	-.0130	.0210
315.000	1.2810	.1800	.3010	-.4500	-.4800	-.0830	-.0730						.0840	.2500	.1140

X/LS	.9670
PHI	
.000	.3860
45.000	.4130
90.000	.3050
135.000	.2290
180.000	.1980
225.000	.0750
270.000	.0360
315.000	.2740

AMES 11-7D7 IA9 02A + S3 + T9 SRM BOOSTER (RBMS07) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .030 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .597 BETAT (1) = -8.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4833	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0930	.1640	-.2540	-.5780	-.1760	-.0700	-.0500	-.0240	-.0300	-.0650	-.1800	-.1110	.2530	.1540	.0500
45.000	1.0930	.2190	-.1600	-.4670	-.1540	-.0630							.4000	.2900	.1800
90.000	1.0930	.2840	-.1340	-.3850	-.1040	-.0250	-.0060	.0010	.0080	.0010	-.0560	.0800	.5190	.3980	.2470
135.000	1.0930	.2770	-.0880	-.3870	-.0890	-.0180							.4920	.3860	.2090
180.000	1.0930	.2460	-.1550	-.3950	-.0860	-.0140	-.0080	.0010	.0510	.0550	-.1420	-.0550	.3530	.2340	.0820
225.000	1.0930	.2490	-.1760	-.5330	-.1210	-.0180	-.0060						.2330	.1730	.0590
270.000	1.0930	.2520	-.0080	-.9590	-.2490	-.0900	-.0510	-.0450			-.2720	.0020	.1360	.2310	.2020
315.000	1.0930	.1870	-.3310	-.7710	-.1890	-.0610	-.0200						.1620	.1380	.1070

X/LS	.9670
PHI	
.000	-.0710
45.000	-.0160
90.000	-.0090
135.000	.0620
180.000	.0600
225.000	-.0570
270.000	.0540
315.000	-.0430

MACH (1) = .598 BETAT (2) = -6.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4833	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0970	.1570	-.2600	-.5840	-.1750	-.0720	-.0420	-.0270	-.0320	-.0630	-.1580	-.0780	.3000	.2100	.0940
45.000	1.0970	.1990	-.1820	-.4920	-.1630	-.0650							.4140	.3090	.1730
90.000	1.0970	.2490	-.1230	-.4230	-.1210	-.0390	-.0210	-.0130	-.0050	-.0080	-.0490	.0830	.4930	.3830	.2220
135.000	1.0970	.2340	-.1190	-.4210	-.1010	-.0320							.4710	.3540	.1980
180.000	1.0970	.2410	-.1610	-.4200	-.1040	-.0310	-.0220	-.0120	.0350	.0350	-.1410	-.0380	.3620	.2560	.1000
225.000	1.0970	.2550	-.1780	-.5420	-.1400	-.0380	-.0220						.2660	.1990	.0780
270.000	1.0970	.2590	-.0100	-.9800	-.2580	-.1040	-.0570	-.0520			-.2520	.0080	.1660	.2710	.2210
315.000	1.0970	.1950	-.3270	-.7720	-.2050	-.0730	-.0330						.2210	.1900	.1370

X/LS	.9670

AMES 11-707 IA9 32A + S3 + T9 SRM BOOSTER (SBMS07)

MACH (1) = .598 BETAT (2) = -6.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
.000	-.0310
45.000	.0120
90.000	.0110
135.000	.0530
180.000	.0430
225.000	-.0310
270.000	.0660
315.000	-.0050

MACH (1) = .598 BETAT (3) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1134	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9244	.9387
PHI															
.000	1.0960	.1370	-.2510	-.5910	-.1720	-.0690	-.0420	-.0260	-.0250	-.0320	-.1180	-.0370	.3180	.2480	.1210
45.000	1.0980	.1810	-.1990	-.5140	-.1590	-.0640							.4130	.3150	.1770
90.000	1.0980	.2190	-.1990	-.4450	-.1300	-.0500	-.0300	-.0200	-.0120	-.0160	-.0460	.0770	.4800	.3800	.1960
135.000	1.0980	.2320	-.1420	-.4450	-.1250	-.0420							.4450	.3440	.1830
180.000	1.0980	.2470	-.1660	-.4950	-.1130	-.0420	-.0330	-.0190	.0280	.0190	-.1330	-.0180	.3551	.2810	.1561
229.000	1.0960	.2640	-.1700	-.5550	-.1550	-.0530	-.0370						.2950	.1720	.0477
270.000	1.0960	.2810	-.2030	-.9750	-.2700	-.1160	-.0690	-.0500			-.1920	-.0830	.1040	.1820	.1780
315.000	1.0980	.1990	-.3140	-.7780	-.2120	-.0810	-.0360						.2010	.1740	.1430

X/LS .9870

PHI	
.000	-.0180
45.000	.0120
90.000	.0120
135.000	.0560
180.000	.0160
225.000	-.0450
270.000	.0690
315.000	-.0250

TABULATED PRESSURE DATA - IA9A

AMES 11-[illegible] IA9 CBA + S[illegible] + T9 SRM BOOSTER

MACH (1) = .9[illegible] BETAT (4) = -2.020

SECTION (1:SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1130	.1422	.1991	.2844	.3697	.4839	.5973	.7110	.8248	.8817	.9244	.9388
PHI															
.000	1.0[illegible]	.49[illegible]	-.2566	-.5[illegible]	-.1[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.0[illegible]	-.1[illegible]	-.[illegible]	.5[illegible]	.[illegible]	.[illegible]
45.000	1.[illegible]	.[illegible]	-.2[illegible]	-.[illegible]	-.[illegible]	-.[illegible]							.6[illegible]	.5[illegible]	.[illegible]
90.000	1.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	[illegible]	.4[illegible]	.[illegible]	.[illegible]
135.000	1.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]							.4[illegible]	.[illegible]	.[illegible]
180.000	1.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.3[illegible]	.[illegible]	.[illegible]
225.000	1.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]						.2[illegible]	.[illegible]	.[illegible]
270.000	1.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]			-.[illegible]	-.[illegible]	.1[illegible]	.[illegible]	.[illegible]
315.000	1.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]						.2[illegible]	.[illegible]	.[illegible]

X/LS .9[illegible]

PHI	
.000	.0160
45.000	.[illegible]
90.000	.[illegible]
135.000	.0160
180.000	.0160
225.000	-.0[illegible]
270.000	.[illegible]
315.000	.0[illegible]

MACH (1) = .99[illegible] BETAT (9) = .020

SECTION (1:SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1130	.1422	.1991	.2844	.3697	.4839	.5973	.7110	.8248	.8817	.9244	.9388
PHI															
.000	1.0[illegible]	.1[illegible]	-.2[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	[illegible]	.5[illegible]	.[illegible]	.[illegible]
45.000	1.[illegible]	.[illegible]	-.2[illegible]	-.[illegible]	-.[illegible]	-.[illegible]							.5[illegible]	.[illegible]	.[illegible]
90.000	1.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	[illegible]	.[illegible]	.[illegible]	.[illegible]
135.000	1.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]							.[illegible]	.[illegible]	.[illegible]
180.000	1.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	[illegible]	.[illegible]	.[illegible]	.[illegible]
225.000	1.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]						.[illegible]	.[illegible]	.[illegible]
270.000	1.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]			-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.[illegible]
315.000	1.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]						.[illegible]	.[illegible]	.[illegible]

X/LS .98[illegible]

PHI	
.000	.[illegible]
45.000	.[illegible]
90.000	.[illegible]
135.000	.[illegible]
180.000	.[illegible]

AVES 11-PUF 189 CRA + 33 + 19 SRM BOOSTER RPM??

MACH (1) = .599 BETAT (1) = .09

SECTION 1/SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI

PHI													
.000	1.0460	.1280	-.2800	-.6160	-.1890	-.0810	-.0520	-.0710	-.0340	-.0480	-.1100	.0460	.3660
45.000	1.0460	.1130	-.2990	-.5880	-.1720	-.0730							.3580
90.000	1.0460	.1200	-.2850	-.5930	-.1610	-.0720	-.0500	-.0410	-.0300	-.0330	-.0620	.0780	.3290
135.000	1.0460	.1520	-.2340	-.5490	-.1650	-.0930							.3910
180.000	1.0460	.2130	-.1870	-.4770	-.1600	-.0480	-.0730	-.0590	-.0190	-.0590	-.1470	-.0920	.3860
225.000	1.0460	.2920	-.1430	-.5620	-.1850	-.0850	-.0650						.3070
270.000	1.0460	.2930	.0090	-1.0000	-.2840	-.1320	-.0790	-.0580			-.2910	-.1550	.1770
315.000	1.0460	.2120	-.2850	-.7610	-.2290	-.0980	-.0580						.3710

X/LS .9870

PHI	
.000	.0730
45.000	.0000
90.000	.0000
135.000	-.0170
180.000	-.0170
225.000	-.0290
270.000	.0510
315.000	.1310

MACH (1) = .599 BETAT (7) = 4.080

SECTION 1/SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9358
PHI															
.000	1.0810	.1180	-.2560	-.6290	-.1910	-.0860	-.0520	-.0320	-.0400	-.0510	-.0890	-.0320	.3890	.3770	.2440
45.000	1.0810	.0860	-.2750	-.6230	-.1760	-.0770							.3840	.3540	.1470
90.000	1.0810	.0940	-.2770	-.5780	-.1610	-.0770	-.0450	-.0410	-.0330	-.0310	-.0490	-.0400	.3440	.3320	.1370
135.000	1.0810	.1230	-.2370	-.5800	-.1780	-.1010							.2730	.2490	.1110
180.000	1.0810	.2060	-.1940	-.4990	-.1850	-.1060	-.0890	-.0700	-.0260	-.0360	-.1410	-.0220	.3240	.2760	.1110
225.000	1.0810	.2990	-.1280	-.5450	-.1830	-.0880	-.0680						.3870	.4440	.1660

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS07)

MACH (1) = .599 BETAT (7) = 4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4833	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.0810	.3030	.0220	-1.0130	-.2820	-.1290	-.0740	-.0550			-.2350	-.0090	.2920	.2850	.1880
315.000	1.0810	.2160	-.2700	-.7090	-.2280	-.0970	-.0530						.3770	.4220	.3390

X/LS	.9678
PHI	
.000	.0840
45.000	-.0100
90.000	-.0100
135.000	-.0260
180.000	-.0280
225.000	-.0280
270.000	.0320
315.000	.1730

MACH (1) = .597 BETAT (8) = 6.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4833	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0720	.1130	-.2520	-.6050	-.1980	-.1000	-.0650	-.0400	-.0430	-.0550	-.0820	.0080	.4730	.4090	.2460
45.000	1.0720	.0660	-.2970	-.6170	-.1780	-.0790							.3010	.2670	.1320
90.000	1.0720	.0700	-.2960	-.5780	-.1620	-.0710	-.0430	-.0330	-.0250	-.0280	-.0480	.0700	.3600	.2580	.1050
135.000	1.0720	.0990	-.2830	-.6000	-.1900	-.1140							.2640	.2240	.0820
180.000	1.0720	.1980	-.2040	-.5000	-.2030	-.1260	-.1020	-.0780	-.0340	-.0590	-.1200	.0090	.3610	.2570	.0940
225.000	1.0720	.3000	-.1130	-.5110	-.1890	-.0910	-.0730						.3430	.1840	.0260
270.000	1.0720	.3210	.0290	-.9890	-.2640	-.1230	-.0700	-.0470			-.2250	-.0300	.2730	.2150	.1220
315.000	1.0720	.2330	-.2300	-.6740	-.2220	-.0990	-.0500						.4310	.4010	.3390

X/LS	.9670
PHI	
.000	.0730
45.000	.0130
90.000	-.0220
135.000	-.0370
180.000	-.0420
225.000	-.0390
270.000	-.0150
315.000	.1910

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

MACH (1) = .597 BETAT (9) = 8.140

SECTION . 1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0400	.0900	-.4550	-.8470	-.2170	-.1170	-.0790	-.0500	-.0360	-.0800	-.0840	.0960	.3280	.4280	.2920
45.000	1.0800	.0410	-.3180	-.5560	-.1840	-.0950							.2950	.2540	.1130
90.000	1.0800	.0410	-.3100	-.6020	-.1640	-.0760	-.0510	-.0430	-.0350	-.0900	-.0440	.0440	.2910	.2540	.1240
135.000	1.0800	.0840	-.3180	-.6480	-.2590	-.1310							.2450	.1980	.0490
180.000	1.0800	.1780	-.2410	-.5240	-.2330	-.1520	-.1290	-.0980	-.0390	-.0510	-.1130	-.0210	.3810	.2190	.0590
225.000	1.0800	.3130	-.1010	-.3020	-.1740	-.1030	-.0790						.3790	.0470	-.0550
270.000	1.0800	.3290	.0290	-.0380	-.2710	-.1220	-.0670	-.0540			-.2170	-.0980	.2510	.1470	.0310
315.000	1.0800	.2530	-.2260	-.6430	-.2260	-.0090	-.0560						.4400	.4020	.3480

X/LS	.9670
PHI	
.000	.0780
45.000	-.0100
90.000	-.0160
135.000	-.0300
180.000	-.0690
225.000	-.0850
270.000	-.1040
315.000	.2410

MACH (2) = .900 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2120	.2980	.0280	-1.0790	-.6130	-.0340	-.0470	-.0260	.0070	-.0100	-.1080	-.1220	.2180	.1690	.0800
45.000	1.2120	.3320	.0080	-1.0910	-.6870	-.0890							.6070	.3540	.2280
90.000	1.2120	.3870	.1070	-1.0080	-.3390	.0130	-.0090	-.0090	.0420	.0800	-.0470	.0710	.5420	.4830	.3350
135.000	1.2120	.3790	.1270	-1.0230	-.1400	.0240							.5440	.4700	.3040
180.000	1.2120	.3900	.0870	-1.0390	-.1990	.0260	-.0140	-.0270	.0940	.1680	.0070	-.0290	.3970	.3550	.1480
225.000	1.2120	.3590	.1220	-1.0450	-.3710	.0020	-.0150						.1730	-.0900	-.1140
270.000	1.2120	.3680	.3840	-.8020	-.6450	-.1380	-.0540	-.0240			-.1500	-.2290	.0890	.1530	.2110
315.000	1.2120	.3190	.0380	-1.0970	-.5770	-.1010	-.0250						.1480	.0330	.1180

X/LS	.9670
PHI	
.000	-.0080
45.000	.0900
90.000	.0910
135.000	.1840
180.000	.1480

AMES 11-FT? IA9 CBA + S3 + T9 SRM BOOSTER (RBMS??)

MACH (2) = .9?? BETAT (1) = -8.18?

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0240
270.000	.1420
315.000	.0350

MACH (2) = .899 BETAT (2) = -8.183

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9244	.9388
PHI															
.000	1.2170	.2800	.0320	-1.0790	-.7710	-.0250	-.5420	-.0210	-.0010	-.0150	-.1080	-.0830	.2380	.2230	.1370
45.000	1.2170	.3180	.0740	-1.0360	-.7100	-.0150							.4170	.3720	.2490
90.000	1.2170	.3390	.0740	-1.0220	-.6190	.0100	-.0280	-.0240	.0280	.0420	-.0550	.0870	.5180	.4860	.3170
135.000	1.2170	.3610	.1130	-1.0330	-.3710	.0250							.5150	.4550	.2880
180.000	1.2170	.3550	.0920	-1.0360	-.2320	.0160	-.0350	-.0470	.0760	.1390	-.0210	-.0160	.4140	.3631	.1840
225.000	1.2170	.3710	.1320	-1.0370	-.5060	-.0120	-.0350						.1260	.0970	.0210
270.000	1.2170	.3660	.3700	-.7990	-.6800	-.1440	-.0680	-.0320			-.1480	-.1850	.0747	.1471	.2130
315.000	1.2170	.3280	.0430	-1.0920	-.5930	-.1170	-.0320						.1100	.0791	.1310

X/LS .9670

PHI	
.000	.0350
45.000	.1060
90.000	.1060
135.000	.1500
180.000	.1330
225.000	.0310
270.000	.1490
315.000	.0700

MACH (2) = .899 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9244	.9388
PHI															
.000	1.2190	.2880	.0330	-1.0780	-.7920	-.0170	-.0380	-.0190	-.0020	-.0180	-.1090	-.0900	.2930	.2780	.1890
45.000	1.2190	.2990	.0590	-1.0460	-.7440	.0000							.4240	.3880	.2520
90.000	1.2190	.3320	.0870	-1.0400	-.6020	.0080	-.0380	-.0350	.0120	.0290	-.0990	.0780	.4920	.4470	.2890
135.000	1.2190	.3440	.0990	-1.0440	-.4910	.0110							.4950	.4390	.2770
180.000	1.2190	.3550	.0950	-1.0350	-.3030	.0080	-.0570	-.0480	.0800	.1070	-.0490	-.0940	.4080	.3480	.1720
225.000	1.2190	.3670	.1440	-1.0310	-.6390	-.0180	-.0550						.2210	.1480	.0290

MACH (2) = .899 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1139	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.881?	.9044	.9580
PHI															
270.000	1.2190	.3930	.3730	-.7990	-.7310	-.1890	-.0870	-.0320			-.1470	-.1890	.0780	.1530	.2240
315.000	1.2190	.3330	.0430	-1.0910	-.6080	-.1320	-.0430						.1320	.1330	.1740

X/LS .9670

PHI	
.000	.0810
45.000	.0810
90.000	.1040
135.000	.1260
180.000	.1190
225.000	.0370
270.000	.1520
315.000	.1120

MACH (2) = .901 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9580
PHI															
.000	1.2190	.2830	.0340	-1.0770	-.7940	-.0280	-.0320	-.0170	-.0040	-.0220	-.1120	-.0210	.3100	.3220	.2910
45.000	1.2190	.2830	.0440	-1.0500	-.7680	.0140							.4140	.3980	.2990
90.000	1.2180	.3050	.0480	-1.0510	-.7240	.0160	-.0480	-.0390	.0080	.0140	-.0790	.0770	.4610	.4290	.2880
135.000	1.2180	.3280	.0790	-1.0500	-.6880	.0080							.4760	.4290	.2580
180.000	1.2180	.3570	.0990	-1.0300	-.6200	.0040	-.0780	-.0580	.0460	.0780	-.0780	.0020	.4040	.3550	.1740
225.000	1.2180	.4000	.1575	-1.0190	-.6910	-.0240	-.0730						.2360	.1200	.0280
270.000	1.2180	.4110	.3810	-.7940	-.7750	-.1780	-.0740	-.0400			-.1510	-.1540	.0080	.1800	.2590
315.000	1.2180	.3470	.0340	-1.0820	-.6390	-.1520	-.0410						.1390	.1550	.2780

X/LS .9670

PHI	
.000	.1170
45.000	.1090
90.000	.1030
135.000	.1080
180.000	.1060
225.000	.0390
270.000	.1290
315.000	.1430

AMES 11-75T IA9 CRA + S3 + 79 SRM BOOSTER (RUN307)

MACH (2) = .901 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2140	.2830	.0310	-1.0770	-.7980	-.0120	-.0280	-.0140	-.0030	-.0230	-.1110	.0040	.3390	.3890	.2740
45.000	1.2140	.2830	.0320	-1.0560	-.7980	.0250							.3930	.3920	.2800
90.000	1.2140	.2790	.0320	-1.0640	-.7640	.0230	-.0310	-.0320	.0020	.0090	-.0790	.0910	.4080	.3930	.2450
135.000	1.2140	.3080	.0390	-1.0640	-.7100	.0020							.4370	.4080	.2430
180.000	1.2140	.3800	.0970	-1.0300	-.6120	-.0040	-.1040	-.0830	.0340	.0480	-.1020	.0040	.4000	.3580	.1790
225.000	1.2140	.4140	.1730	-1.0040	-.8950	-.0240	-.0920						.2580	.1450	.0570
270.000	1.2140	.4250	.3860	-.7940	-.8700	-.1710	-.0750	-.0310			-.1570	-.1520	.1030	.1900	.2000
315.000	1.2140	.3550	.0600	-1.0780	-.6610	-.1490	-.0390						.1800	.2120	.2580

X/LS .9879

PHI	
.000	.1410
45.000	.1280
90.000	.1030
135.000	.0890
180.000	.0650
225.000	.0400
270.000	.1180
315.000	.1830

MACH (2) = .901 BETAT (6) = 2.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2140	.2740	.0310	-1.0780	-.7970	-.0150	-.0310	-.0180	-.0020	-.0230	-.1030	.0300	.3780	.4000	.3080
45.000	1.2140	.2490	.0120	-1.0680	-.8170	.0270							.4150	.3980	.2570
90.000	1.2140	.2580	.0130	-1.0750	-.7940	.0310	-.0380	-.0350	.0020	.0010	-.0870	.1020	.3550	.3400	.2130
135.000	1.2140	.2890	.0380	-1.0700	-.7310	-.0140							.3620	.3790	.2280
180.000	1.2140	.3800	.0970	-1.0280	-.6040	-.0120	-.1290	-.0800	.0280	.0210	-.1220	.0090	.3970	.3350	.1810
225.000	1.2140	.4310	.1670	-.9920	-.8890	-.0250	-.1010						.2870	.1750	.0680
270.000	1.2140	.4410	.3910	-.7910	-.8310	-.1610	-.0720	-.0320			-.1630	-.1580	.1210	.2000	.1990
315.000	1.2140	.3640	.0680	-1.0730	-.7090	-.1140	-.0370						.2130	.2360	.2990

X/LS .9879

PHI	
.000	.1830
45.000	.1210
90.000	.0980
135.000	.0540
180.000	.0870

AMES 11-707 IA9 CEA + 33 + 79 SRM BOOSTER

MACH (2) = .901 BETAT (8) = 2.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9875

PHI	
225.000	.0650
270.000	.1030
315.000	.2250

MACH (2) = .908 BETAT (7) = 4.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	[illegible]	.9390
PHI															
.000	1.2100	.2690	.0240	-1.0790	-.7980	-.0180	-.2320	-.2130	-.2080	-.2020	-.1390	.0550	.3940	.4440	.3330
45.000	1.2100	.2280	-.0030	-1.0800	-.8310	.0080							.4340	.3980	.2470
90.000	1.2100	.2340	-.0030	-1.0900	-.8170	.0330	-.0350	-.0240	.0080	.0090	-.0020	.0980	.3740	.3250	.1800
135.000	1.2100	.2860	.0170	-1.0850	-.7480	-.0170							.2920	.3270	.1940
180.000	1.2100	.3570	.0920	-1.0320	-.6000	-.0250	-.1500	-.0550	.0220	.0080	-.1220	.0170	.3920	.3480	.1580
225.000	1.2100	.4490	.2050	-.9790	-.8400	-.0210	-.1150						.3110	.1970	.0480
270.000	1.2100	.4570	.4000	-.7940	-.8300	-.1410	-.0790	-.0930			-.1860	-.1450	.1780	.2410	.2020
315.000	1.2100	.3730	.0750	-1.0720	-.7040	-.0060	-.0330						.2850	.3440	.3520

X/LS .9670

PHI	
.000	.1970
45.000	.0980
90.000	.0780
135.000	.0350
180.000	.0350
225.000	.0320
270.000	.0790
315.000	.2630

MACH (2) = .901 BETAT (8) = 6.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9390
PHI															
.000	1.2020	.2800	.0210	-1.0750	-.7830	-.0180	-.0380	-.0240	-.0090	-.0280	-.1180	.0850	.4490	.4980	.3840
45.000	1.2020	.2110	-.0230	-1.0800	-.8270	-.0250							.3740	.3510	.2100
90.000	1.2020	.2120	-.0230	-1.0900	-.7430	.0110	-.0910	-.0230	.0090	-.0120	-.0880	.0930	.4280	.3270	.1790
135.000	1.2020	.2450	-.0090	-1.0880	-.7570	-.0370							.2980	.2850	.1440
180.000	1.2020	.3480	.0850	-1.0230	-.5960	-.0370	-.1770	-.0960	.0130	-.0030	-.1230	-.0120	.3470	.3080	.1280
[illegible]	1.2020	.4340	.2160	-.9840	-.8040	-.0330	-.1280						.2770	.3210	.3220

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 CEA • S3 • T9 SRM BOOSTER (RBMSD7)

MACH (2) = .901 BETAT (8) = 8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.2020	.4870	.3980	-.7840	-.8180	-.1230	-.0720	-.0310			-.1770	-.1800	.1700	.1890	.1050
315.000	1.2020	.3830	.0910	-1.0510	-.7940	-.0820	-.0380						.3380	.3820	.3970

X/LS	.9670
PHI	
.000	.2120
45.000	.0670
90.000	.0310
135.000	.0180
180.000	.0020
225.000	.0000
270.000	-.0250
315.000	.3100

MACH (2) = .901 BETAT (9) = 8.220

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1920	.2490	.0190	-1.0840	-.7830	-.0430	-.0480	-.0240	-.0100	-.0280	-.1080	.0891	.5910	.5900	.5800
45.000	1.1920	.1910	-.0450	-1.0980	-.4620	-.0510							.5480	.5240	.1930
90.000	1.1920	.1920	-.0450	-1.1050	-.4840	-.0380	-.0510	-.0240	.0120	.0040	-.0810	.0730	.4190	.3010	.1390
135.000	1.1920	.2220	-.0380	-1.1050	-.7540	-.0710							.2890	.2490	.1090
180.000	1.1920	.3420	.0810	-1.0280	-.5910	-.0610	-.1930	-.0800	.0220	.0130	-.1140	-.0430	.3550	.1910	.0930
225.000	1.1920	.4690	.2330	-.9520	-.7820	-.0410	-.1370						.1900	-.0420	-.1050
270.000	1.1920	.4720	.3880	-.7850	-.7110	-.1220	-.0680	-.0310			-.1780	-.1780	.1540	.1130	.0080
315.000	1.1920	.3850	.0940	-1.0510	-.9770	-.0710	-.0390						.3840	.3890	.3930

X/LS	.9670
PHI	
.000	.2250
45.000	.0380
90.000	.0410
135.000	-.0070
180.000	-.0270
225.000	-.0270
270.000	-.1420
315.000	.3070

AMES 11-7ft IA9 CRA + 33 + T9 SRM BOOSTER (RUN507)

MACH (3) = 1.100 BETAT (1) = -8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9300
PHI															
.000	1.3210	.4220	.2570	-.6290	-.4570	-.3340	.0860	-.0020	-.0470	.0270	.0280	-.3450	.0870	.2520	.1800
45.000	1.3210	.4830	.3130	-.5900	-.3830	-.2000							.2060	.4320	.3380
90.000	1.3210	.5090	.3830	-.5720	-.3170	-.1140	.1120	.0390	-.0800	.1230	.0880	-.1600	.3130	.5790	.4490
135.000	1.3210	.4880	.3440	-.5890	-.3410	-.0670							.2950	.6320	.4320
180.000	1.3210	.4580	.3010	-.6040	-.3880	.1030	.1400	.0080	-.0980	.2670	.1930	-.3990	.1930	.5410	.3110
225.000	1.3210	.4700	.3300	-.6140	-.6030	.1300	.1200						.0900	.1510	.0310
270.000	1.3210	.4930	.5580	-.3970	-.8540	-.1970	-.1120	-.2500			-.0300	-.2250	.0300	.0790	.1900
315.000	1.3210	.4500	.2730	-.6400	-.6740	-.1770	.0590						.0240	.0410	.1710

X/LS	.9670
PHI	
.000	.1400
45.000	.2420
90.000	.2520
135.000	.3280
180.000	.3280
225.000	.1080
270.000	.1790
315.000	.1480

MACH (3) = 1.099 BETAT (2) = -6.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9300
PHI															
.000	1.3150	.4050	.2580	-.6240	-.4360	-.3000	.0640	.0030	-.0410	-.0090	.0170	-.2850	.1480	.2970	.2430
45.000	1.3150	.4350	.3010	-.5950	-.4030	-.2010							.2820	.4350	.3690
90.000	1.3150	.4700	.3410	-.5830	-.3480	-.1200	.1090	.0310	-.0820	.0910	.0680	-.1650	.3170	.5990	.4450
135.000	1.3150	.4680	.3350	-.5920	-.3520	-.0810							.2880	.5990	.4480
180.000	1.3150	.4590	.3120	-.5960	-.3870	.0070	.1310	-.0040	-.1130	.2340	.1370	-.3650	.2700	.5090	.3150
225.000	1.3150	.4760	.3470	-.6030	-.5780	.0380	.1190						.0480	.1900	.0370
270.000	1.3150	.4900	.5600	-.3950	-.8470	-.2020	-.0920	-.2250			-.0920	-.1880	.0300	.0820	.2130
315.000	1.3150	.4370	.2710	-.6410	-.6690	-.1800	.0460						.0230	.0490	.1780

X/LS	.9670
PHI	
.000	.1930
45.000	.2445
90.000	.2870
135.000	.3180
.000	.3180

AMES 11-70T IA9 OEA + S3 + T9 SRM BOOSTER (RBM507)

MACH (3) = 1.099 BETAT (2) = -6.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.0780
270.000	.1940
315.000	.1850

MACH (3) = 1.098 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3070	.3940	.2620	-.6260	-.4510	-.2840	.0670	.0100	-.0420	-.0170	.0010	-.2090	.2010	.3340	.2920
45.000	1.3070	.4140	.2890	-.6030	-.4180	-.2010							.3000	.4640	.3790
90.000	1.3070	.4410	.3070	-.5980	-.3750	-.1140	.1090	.0090	-.1070	.0740	.0400	-.1570	.3540	.5330	.4350
135.000	1.3070	.4490	.3210	-.5960	-.3630	-.0780							.2980	.5720	.4320
180.000	1.3070	.4390	.3170	-.5950	-.3540	-.0340	.1520	-.0300	-.1470	.2030	.0770	-.3010	.2670	.4900	.3060
225.000	1.3070	.4800	.3560	-.5960	-.3580	-.0200	.1170						.1900	.1520	.0180
270.000	1.3070	.4880	.3560	-.3970	-.8440	-.2000	-.0820	-.1960			-.0710	-.1680	.0230	.1030	.2300
315.000	1.3070	.4420	.2740	-.6430	-.6640	-.1690	.0430						.0390	.0800	.1960

X/LS .9870

PHI	
.000	.2340
45.000	.2810
90.000	.2810
135.000	.3060
180.000	.3010
225.000	.1810
270.000	.2150
315.000	.2210

MACH (3) = 1.101 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3000	.3700	.2390	-.6210	-.4490	-.2880	.0830	.0210	-.0390	-.0260	-.0190	-.1900	.2300	[illegible]	[illegible]
45.000	1.3000	.3810	.2730	-.6030	-.4330	-.1940							.3270	[illegible]	[illegible]
90.000	1.3000	.4050	.2720	-.6010	-.4020	-.1260	.1130	-.0190	-.1120	.0890	.0130	-.1720	.3280	[illegible]	[illegible]
135.000	1.3000	.4300	.3060	-.6010	-.3830	-.1030							.3010	[illegible]	[illegible]
180.000	1.3000	.4490	.3210	-.5970	-.3550	-.0770	.1270	-.0190	-.1720	.1780	.0110	-.2880	.2700	[illegible]	[illegible]
225.000	1.3000	.4730	.3700	-.5880	-.3530	-.0910	.1180						.1820	[illegible]	[illegible]

AMES 11-FOOT IAS OEA - 35 - 79 SRM BOOSTER (REV)

MACH (3) = 1.151 BETAT (4) = -2.030

SECTION - 11SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8249	.9317	.9744	.9886
PHI															
270.000	1.3000	.4730	.5800	-.3950	-.8310	-.2010	-.0580	-.1720			-.0910	-.1810	.0350	.1180	.2210
315.000	1.3000	.4200	.2780	-.6380	-.8510	-.1590	.0390						.0380	.1210	.2250

X/LS .9870

PHI	
.000	.2750
45.000	.2740
90.000	.2880
135.000	.2930
180.000	.2650
225.000	.1780
270.000	.1840
315.000	.2320

MACH (3) = 1.099 BETAT (5) = 2.070

SECTION - 11SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8249	.9317	.9744	.9886
PHI															
.000	1.2810	.5440	.2810	-.0230	-.4250	-.1780	-.0580	.0260	-.0580	-.0870	-.0080	-.0810	.2910	.4270	.4170
45.000	1.2910	.5410	.2460	-.0150	-.4520	-.1830							.2860	.4090	.4070
90.000	1.2910	.5800	.2490	-.0200	-.4400	-.1210	.0560	-.0530	-.1490	.0380	.0010	-.0970	.2320	.3210	.3330
135.000	1.2810	.5820	.2740	-.0180	-.4030	-.1510							.2330	.4540	.3480
180.000	1.2810	.4230	.3190	-.5890	-.2940	-.1380	.0540	-.1290	-.2500	.0900	-.0830	-.2890	.2480	.3690	.2330
225.000	1.2810	.4530	.3920	-.5820	-.4920	-.0990	.0990						.2260	.1930	.1490
270.000	1.2810	.4270	.3710	-.5840	-.8250	-.1800	-.0870	-.1490			-.0830	-.1710	.0460	.1270	.1870
315.000	1.2810	.5870	.2930	-.8250	-.8250	-.1120	-.0340						.1180	.2760	.2830

X/LS .9870

PHI	
.000	.3080
45.000	.3120
90.000	.2920
135.000	.2340
180.000	.2340
225.000	.1270
270.000	.1330
315.000	.3030

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AMES 11-707 IA9 CRA + S3 + T9 SRM BOOSTER (RBM3CP)

MACH (S) = 1.[illegible] BETAT (6) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0541	.0987	.1135	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2710	.3140	.2810	-.6200	-.4100	-.1350	-.0450	.0130	-.0720	-.0100	-.0010	-.0710	.2720	.4470	.4110
45.000	1.2710	.3060	.2350	-.6220	-.4370	-.1750							.3330	.4230	.3990
90.000	1.2710	.3140	.2320	-.6290	-.4630	-.1170	.0470	-.0870	-.1630	.0775	.0090	-.1420	.2770	.3580	.3150
135.000	1.2710	.3380	.2510	-.6260	-.4080	-.1870							.2750	.3890	.2390
180.000	1.2710	.3910	.3160	-.5840	-.2990	-.1750	.0380	-.1590	-.2370	.0890	-.0360	-.2490	.2410	.3880	.2240
225.000	1.2710	.4291	.4070	-.5450	-.4990	-.1180	.0480						.1940	.1490	.0790
270.000	1.2710	.3810	.5850	-.3770	-.8170	-.1550	-.1060	-.1550			-.0550	-.1790	.0970	.1147	.1893
315.000	1.2710	.3430	.5190	-.6030	-.5930	-.1020	-.0740						.1830	.2841	.2997

X/LS	.9678
PHI	
.000	.3420
45.000	.2830
90.000	.2510
135.000	.1990
180.000	.1630
225.000	.0780
270.000	.1270
315.000	.2960

MACH (S) = 1.101 BETAT (7) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0541	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2540	.2740	.2380	-.6260	-.4080	-.1550	-.0820	-.0010	-.0600	-.0170	.0120	-.0900	.3680	.5410	.4780
45.000	1.2540	.2850	.2130	-.6540	-.4750	-.1470							.3100	.3980	.3440
90.000	1.2540	.2780	.2100	-.6420	-.4790	-.1110	.0250	-.0850	-.1820	.0480	.0240	-.1890	.4210	.3970	.2890
135.000	1.2540	.2940	.2290	-.6390	-.4220	-.1980							.2590	.3883	.2580
180.000	1.2540	.3930	.3200	-.5810	-.2760	-.1970	.0130	-.1910	-.2390	.0920	-.0550	-.2570	.2590	.3480	.1980
225.000	1.2540	.3880	.4060	-.5510	-.4080	-.1570	.0240						.2180	.2430	-.0090
270.000	1.2540	.3490	.5910	-.3780	-.7930	-.1630	-.1120	-.1480			-.0440	-.1990	.2360	.1570	.1257
315.000	1.2540	.3150	.5310	-.5920	-.5820	-.0980	-.0940						.2140	.2991	.3157

X/LS	.9678
PHI	
.000	.3870
45.000	.2540
90.000	.2290
135.000	.1790
180.000	.1510

AMES 11-FT IA9 CEA + 53 + 79 SRM BOOSTER (RBM507)

MACH (3) = 1.101 BETAT (7) = 8.290

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9879

PHI	
225.000	.0650
270.000	.0870
315.000	.2930

MACH (3) = 1.101 BETAT (8) = 8.290

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2330	.2280	.2520	-.6280	-.4130	-.1630	-.1080	-.0150	-.0820	-.0190	.0350	-.0980	.4570	.9780	.4850
45.000	1.2330	.2130	.1920	-.6440	-.4810	-.0960							.3560	.6080	.3540
90.000	1.2330	.2300	.1920	-.6520	-.4910	-.1080	.0040	-.0850	-.1830	.0810	.0550	-.1890	.4330	.5970	.2830
135.000	1.2330	.2440	.2070	-.6520	-.4400	-.2580							.2250	.2980	.2120
180.000	1.2330	.3100	.3210	-.5810	-.1830	-.2780	-.0010	-.2270	-.0130	.1000	-.0800	-.2290	.2580	.2780	.0690
225.000	1.2330	.3590	.3950	-.5610	-.2510	-.2380	-.0110						.1850	-.0910	-.1160
270.000	1.2330	.3070	.5810	-.3810	-.7650	-.1950	-.1190	-.1520			-.0480	-.2350	.0030	.0370	.0850
315.000	1.2330	.2690	.3470	-.3890	-.5250	-.1090	-.0970						.2690	.2780	.2910

X/LS .9879

PHI	
.000	.3870
45.000	.2980
90.000	.2470
135.000	.1740
180.000	.1290
225.000	-.0370
270.000	.0090
315.000	.2920

MACH (4) = 1.249 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3930	.4530	.3550	-.4190	-.3120	-.3310	-.0060	.0600	-.0120	-.0890	.0370	-.2230	.0840	.3080	.1580
45.000	1.3930	.4130	.4060	-.3860	-.2510	-.1490							.1890	.3820	.3330
90.000	1.3930	.3420	.4450	-.3850	-.2090	-.1090	-.0080	.1100	-.0060	-.0980	.1270	-.1470	.2820	.4850	.4430
135.000	1.3930	.4130	.4070	-.3850	-.2340	-.1040							.1250	.3760	.4850
180.000	1.3930	.4040	.3470	-.4180	-.3220	-.1640	.0980	.0440	-.0240	.1330	.2210	-.0340	.0240	.4920	.4210
225.000	1.3930	.4470	.3890	-.4410	-.4900	.0280	.1040						.2660	.3230	.2190

ANES 11-707 IA9 CRA • 53 • T9 SRM BOOSTER (RBNS07)

MACH (3) = 1.249 BETAT (1) = -8.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3930	.4880	.6590	-.2090	-.6480	-.2090	-.0950	-.1890			-.1120	-.2010	.0340	.0030	.1320
315.000	1.3930	.4520	.3750	-.4330	-.4880	-.2460	.0360						.0500	.0390	.1570

X/LS .9670

PHI	
.000	.1370
45.000	.1270
90.000	.2660
135.000	.3740
180.000	.3870
225.000	.2840
270.000	.2050
315.000	.2210

MACH (4) = 1.248 BETAT (2) = -6.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3880	.3610	.3490	-.4170	-.3170	-.3040	.0130	.0450	-.0160	-.0240	.0450	-.1840	.1230	.2480	.1910
45.000	1.3880	.3270	.3870	-.3910	-.2680	-.1590							.1970	.3820	.3370
90.000	1.3880	.3480	.4140	-.3830	-.2370	-.1180	-.0450	.0970	-.0210	-.0330	.0970	-.0490	.2510	.4640	.4300
135.000	1.3880	.3370	.3890	-.3980	-.2610	-.0960							.1690	.5130	.4700
180.000	1.3880	.3590	.3470	-.4090	-.2900	-.1210	.0650	.0560	-.0360	.0960	.1870	-.2480	.0900	.4310	.4180
225.000	1.3880	.4270	.3730	-.4320	-.4640	.0280	.0570						.0830	.2190	.0810
270.000	1.3880	.4740	.6550	-.2080	-.6430	-.1540	-.0750	-.1330			-.1380	-.1600	.0310	-.0300	.1330
315.000	1.3880	.4300	.3710	-.4310	-.4840	-.2570	.0450						.0480	.0250	.1570

X/LS .9670

PHI	
.000	.1470
45.000	.2220
90.000	.2870
135.000	.3360
180.000	.3680
225.000	.2660
270.000	.2080
315.000	.2250

MACH (4) = 1.248 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3740	.3150	.3400	-.4200	-.3130	-.3120	.0260	.0250	[illegible]	-.0260	.0440	-.1630	.1540	.2790	.2480
45.000	1.3740	.2400	.3640	-.3970	-.2820	-.1740							.2230	.3950	.3510
90.000	1.3740	.2720	.3830	-.3940	-.2580	-.1240	-.0760	.0790	-.0420	-.0490	.0920	-.0510	.2490	.4500	.4160
135.000	1.3740	.2500	.3780	-.3930	-.2660	-.0820							.1810	.4580	.4800
180.000	1.3740	.3070	.3620	-.3930	-.2760	-.0820	.0380	.0440	-.0870	.0380	.1520	-.2620	.1100	.4030	.4010
225.000	1.3740	.4110	.3970	-.4200	-.4480	-.0050	.0450						.1110	.2310	.0540
270.000	1.3740	.4660	.6570	-.2070	-.6390	-.1630	-.0450	-.1240			-.1300	-.1540	.0490	-.0150	.0980
315.000	1.3740	.4220	.3660	-.4330	-.4860	-.2500	.0480						.0570	.0410	.1570

X/LS	.9670
PHI	
.000	.1660
45.000	.2900
90.000	.3150
135.000	.3470
180.000	.3560
225.000	.2470
270.000	.2140
315.000	.2330

MACH (4) = 1.247 BETAT (4) = -2.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3620	.2110	.3280	-.4220	-.3170	-.3040	.0250	.0100	-.0140	-.0340	.0440	-.1500	.1650	.2900	.3110
45.000	1.3620	.1920	.3410	-.4050	-.2940	-.1830							.2310	.3870	.3840
90.000	1.3620	.2200	.3550	-.4030	-.2780	-.1240	-.0860	.0600	-.0800	-.0560	.0750	-.0550	.2380	.4240	.4040
135.000	1.3620	.2020	.3620	-.4030	-.2730	-.0805							.1870	.4630	.4300
180.000	1.3620	.2160	.3650	-.4030	-.2640	-.0680	.0460	.0090	-.1150	.0250	.0970	-.2750	.1040	.3680	.3540
225.000	1.3620	.4170	.4130	-.4030	-.4290	-.0210	.0920						.1060	.2120	.0380
270.000	1.3620	.4680	.6590	-.2030	-.6320	-.1550	.0370	-.1190			-.0840	-.1510	.0540	.0130	.1120
315.000	1.3620	.4320	.3610	-.4340	-.4850	-.2170	.0390						.0510	.0750	.1650

X/LS	.9670
PHI	
.000	.2430
45.000	.3220
90.000	.3370
135.000	.3380
[illegible].000	.3390

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AMES 11-707 IA9 O2A + S3 + T9 SRM BOOSTER (RBM907)

MACH (4) = 1.247 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.2290
270.000	.1920
315.000	.2460

MACH (4) = 1.247 BETAT (5) = 2.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3350	.2340	.3090	-.4270	-.3270	-.2790	-.0060	-.0180	-.0120	-.0440	.0270	-.1100	.2090	.3460	.4140
45.000	1.3350	.1340	.2940	-.4200	-.3270	-.1990							.2220	.3600	.4050
90.000	1.3350	.1360	.2940	-.4230	-.3110	-.1370	-.0670	.0280	-.0840	-.0440	.0330	-.0670	.2090	.3370	.3770
135.000	1.3350	.1880	.3170	-.4220	-.3010	-.1170							.2010	.4310	.4250
180.000	1.3350	.3560	.3580	-.4060	-.2640	-.1030	.0730	-.0190	-.1660	.1210	.0060	-.2040	.1300	.3340	.3080
225.000	1.3350	.4400	.4340	-.4050	-.4010	-.0110	.0790						.1200	.1740	.0220
270.000	1.3350	.4460	.6560	-.2060	-.6230	-.1340	.0060	-.1290			-.0520	-.1700	.0130	.0620	.1650
315.000	1.3350	.4010	.3570	-.4320	-.4770	-.1600	-.0030						.0830	.1580	.1600

X/LS .9670

PHI	
.000	.2560
45.000	.3590
90.000	.3510
135.000	.3110
180.000	.3110
225.000	.1970
270.000	.1550
315.000	.3080

MACH (4) = 1.245 BETAT (6) = 4.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3180	.2620	.2910	-.4320	-.3370	-.2530	-.0320	-.0340	-.0140	-.0320	.0120	-.0410	.2240	.3730	.4380
45.000	1.3180	.1120	.2630	-.4320	-.3370	-.1880							.2980	.3800	.3850
90.000	1.3180	.0910	.2600	-.4300	-.3230	-.1230	-.0550	.0130	-.0920	-.0300	.0630	-.0630	.1670	.2830	.3220
135.000	1.3180	.1760	.2980	-.4310	-.3060	-.1250							.2090	.3860	.3640
180.000	1.3180	.3060	.3580	-.4070	-.2390	-.1130	.0430	-.0410	-.1890	.0770	-.0170	-.1980	.1690	.3890	.2650
225.000	1.3180	.3890	.4440	-.3870	-.3700	-.0020	.0330						.1380	.1930	.0170

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMSOT)

MACH (4) = 1.245 BETAT (6) = 4.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3180	.3940	.6590	-.2050	-.6230	-.1010	.0140	-.1470			-.0400	-.1700	.0230	.0790	.1730
315.000	1.3180	.3470	.3620	-.4270	-.4700	-.1120	-.0300						.1190	.2310	.1700

X/LS	.9870
PHI	
.000	.3510
45.000	.3950
90.000	.3290
135.000	.2740
180.000	.2760
225.000	.1710
270.000	.1620
315.000	.3280

MACH (4) = 1.248 BETAT (7) = 6.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3020	.2310	.2810	-.4380	-.3200	-.2040	-.0650	-.0380	-.0180	-.0570	.0290	-.0310	.2570	.4900	.3270
45.000	1.3020	.1210	.2410	-.4380	-.3450	-.1740							.2160	.3300	.3640
90.000	1.3020	.0660	.2450	-.4330	-.3300	-.1080	-.0530	.0010	-.1010	.0530	.0950	-.0780	.3510	.3710	.3450
135.000	1.3020	-.1800	.2770	-.4380	-.3130	-.1420							.1820	.3540	.3330
180.000	1.3020	.2630	.3540	-.4080	-.2200	-.1190	.0040	-.0570	-.2090	.0780	-.0080	.1880	.1590	.3460	.2300
225.000	1.3020	.3670	.4500	-.3800	-.2450	-.0080	-.0270						.1160	.1070	-.0330
270.000	1.3020	.3680	.6620	-.2020	-.6120	-.0530	-.0890	-.1180			-.0080	-.1830	-.0010	.0890	.0870
315.000	1.3020	.3270	.3720	-.4200	-.4440	-.0620	-.0060						.1870	.2870	.1110

X/LS	.9870
PHI	
.000	.3980
45.000	.4500
90.000	.3110
135.000	.2720
180.000	.2420
225.000	.1210
270.000	.1270
315.000	.3290

AMES 11-707 IA9 C2A + S3 + T9 SRM BOOSTER (RBMS07)

MACH (4) = 1.247 BETAT (8) = 8.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9338
PHI															
.000	1.2860	.1900	.2690	-.4420	-.3030	-.1520	-.1090	-.0320	.0150	-.0600	.0130	-.0490	.3580	.9990	.9450
													.2400	.3410	.3680
45.000	1.2860	.1160	.2070	-.4500	-.3570	-.1660									
90.000	1.2860	.1180	.2090	-.4440	-.3410	-.0920	-.0670	-.0130	-.0860	.0300	.0390	-.0960	.3520	.3920	.3370
													.1500	.3170	.2980
135.000	1.2860	.1550	.2440	-.4500	-.3230	-.1640									
180.000	1.2860	.2550	.3470	-.4090	-.2120	-.1450	-.0890	-.0680	-.1810	.0860	-.0260	-.1750	.1410	.3050	.1620
													.1050	.0230	-.1250
225.000	1.2860	.3390	.4510	-.3740	-.2960	-.0140	-.0870								
270.000	1.2860	.3220	.6550	-.1990	-.5990	-.0390	-.1640	-.0960			-.0480	-.2150	-.0360	.0140	.0380
													.2250	.2710	.1630
315.000	1.2860	.2340	.3800	-.4040	-.4180	-.0330	-.1340								

X/LS	.9670
PHI	
.000	.3850
45.000	.4550
90.000	.3350
135.000	.2610
180.000	.2110
225.000	.0730
270.000	.0760
315.000	.2980

MACH (5) = 1.395 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.4630	.2330	.3840	-.2820	-.2050	-.2260	-.0770	.0310	.0170	-.0340	.0300	-.1420	.0230	.1390	.0900
													.1450	.3020	.2500
45.000	1.4630	.3190	.4220	-.2570	-.1700	-.0970									
90.000	1.4630	.3780	.4250	-.2560	-.1350	-.0660	-.0610	.0240	.0320	.0060	.1130	-.0090	.2270	.3800	.3180
													.1190	.2350	.4930
135.000	1.4630	.3340	.4380	-.2560	-.1630	-.0990									
180.000	1.4630	.2450	.3960	-.2780	-.2110	-.2230	.1420	.1470	-.0180	.0530	.2780	-.1260	-.1280	.0280	.5170
													-.0320	.1500	.3390
225.000	1.4630	.2110	.4350	-.3010	-.3600	-.2160	.1420								
270.000	1.4630	.2060	.7360	-.0770	-.4950	-.2420	-.0840	-.1900			-.1780	-.2010	.0330	.0200	.3390
													.0310	.0040	.1230
315.000	1.4630	.2030	.4240	-.3000	-.3710	-.3950	-.0040								

X/LS	.9670
PHI	
.000	.0410
45.000	.0610
90.000	.2280
135.000	.3610
180.000	.4090

AMES 11-707 IA9 ORA + S3 + T9 SRM BOOSTER (RBMS07)

MACH (9) = 1.395 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.3680
270.000	.1640
315.000	.1010

MACH (9) = 1.395 BETAT (2) = -8.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.4530	.2030	.3670	-.2850	-.2200	-.2290	-.0640	.0390	.0110	-.0360	.0200	-.1130	.0780	.1850	.1250
45.000	1.4530	.2780	.3860	-.2630	-.1820	-.1090							.1620	.3290	.2680
90.000	1.4530	.3320	.3880	-.2560	-.1570	-.0830	-.0230	.0120	.0280	-.0060	.1100	.0030	.2310	.3730	.2890
135.000	1.4530	.2930	.4050	-.2570	-.1770	-.1080							.1100	.2200	.4810
180.000	1.4530	.2160	.3840	-.2770	-.2130	-.2200	.1060	.1300	-.0350	.0200	.2600	-.1270	-.1390	.0810	.5110
225.000	1.4530	.1730	.4360	-.2980	-.3590	-.1630	.1160						.0000	.2150	.5100
270.000	1.4530	.1790	.7360	-.0720	-.4880	-.2320	-.0870	-.1430			-.1080	-.1800	.0020	-.0150	.1540
315.000	1.4530	.1710	.4180	-.3020	-.3710	-.4000	.0080						.0260	-.0280	.0850

X/LS .9670

PHI	
.000	.0270
45.000	.0800
90.000	.2340
135.000	.3440
180.000	.3970
225.000	.3520
270.000	.1680
315.000	.1210

MACH (9) = 1.397 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.4330	.1760	.3980	-.2920	-.2140	-.2370	-.0420	.0420	-.0020	-.0290	.0180	-.1140	.0900	.2070	.1720
45.000	1.4330	.2430	.3520	-.2710	-.1920	-.1200							.1930	.3520	.2720
90.000	1.4330	.2820	.3470	-.2700	-.1780	-.0990	-.0330	.0180	.0150	-.0280	.0920	.0120	.2280	.3980	.2840
135.000	1.4330	.2530	.3690	-.2700	-.1690	-.1030							.1020	.1930	.4880
180.000	1.4330	.1920	.3700	-.2820	-.2120	-.1120	.0840	.1100	-.0330	-.012	.2160	-.1480	-.0900	.2170	.4880
.000	1.4330	.1580	.4370	-.2930	-.3510	-.1450	.0850						.0970	.2710	.2340

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBWS07)

MACH (5) = 1.397 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.4350	.1530	.7330	-.0700	-.4850	-.2190	-.0790	-.1200			-.0510	-.1850	.0460	-.0390	.1680
315.000	1.4350	.1510	.4110	-.3020	-.3740	-.3970	.0130						.0450	-.0040	.1090

X/LS	.9670
PHI	
.000	.0840
45.000	.1340
90.000	.2390
135.000	.3240
180.000	.3750
225.000	.3260
270.000	.1940
315.000	.1850

MACH (5) = 1.396 BETAT (4) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.4040	.1200	.3150	-.3020	-.2390	-.2530	-.0120	.0250	-.0210	-.0270	.0100	-.1020	.1360	.2290	.2550
45.000	1.4040	.1590	.2740	-.2980	-.2270	-.1500							.2040	.3110	.2880
90.000	1.4040	.1860	.2730	-.3010	-.2200	-.1210	-.0660	.0550	-.0320	-.0530	.0690	-.0010	.2160	.3160	.3050
135.000	1.4040	.1770	.3020	-.2990	-.2160	-.0700							.0780	.1740	.4420
180.000	1.4040	.1420	.3590	-.2860	-.2130	-.0470	-.1000	.0490	-.0610	-.0650	.1070	-.1940	.0110	.3380	.4380
225.000	1.4040	.1180	.4540	-.2850	-.3330	-.0980	.0540						.0670	.2930	.1330
270.000	1.4040	.1070	.7330	-.0710	-.4800	-.1750	-.1040	-.1230			-.0310	-.1700	.0030	.0040	.1330
315.000	1.4040	.1070	.4030	-.3020	-.3760	-.3900	.0030						.0410	.0780	.1400

X/LS	.9670
PHI	
.000	.1700
45.000	.2580
90.000	.2750
135.000	.3040
180.000	.3500
225.000	.2630
270.000	.1810
315.000	.2410

AMES 11-707 IA9 ORA + S3 + T9 SRN BOOSTER (RBM507)

MACH (5) = 1.394 BETAT (5) = 4.110

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3900	.0940	.2910	-.3130	-.2550	-.2570	-.0080	-.0200	-.0120	-.0340	.0050	-.1080	.1870	.3100	.3830
45.000	1.3600	.0910	.2360	-.3230	-.2550	-.1740							.2500	.3130	.3050
90.000	1.3600	.1070	.2250	-.3270	-.2540	-.1200	-.0770	.0410	-.0580	-.0810	.0380	-.0200	.1260	.2120	.2480
135.000	1.3600	.1130	.2540	-.3260	-.2540	-.1040							.1390	.2890	.3540
180.000	1.3600	.1260	.3350	-.2990	-.2380	-.0420	-.0700	-.0270	-.1210	-.1080	.0570	-.2180	.1000	.3130	.3360
225.000	1.3600	.1780	.4590	-.2740	-.3190	-.0390	-.0470						.0990	.2330	.0020
270.000	1.3600	.3040	.7220	-.0760	-.4600	-.1210	-.0980	-.1160			-.0040	-.1790	-.0240	.0250	.0350
315.000	1.3600	.1480	.3940	-.3040	-.3740	-.2090	-.0140						.1040	.1980	.1170

X/LS	.9870
PHI	
.000	.2890
45.000	.3820
90.000	.2860
135.000	.2410
180.000	.2900
225.000	.2040
270.000	.1580
315.000	.3480

MACH (5) = 1.392 BETAT (6) = 8.210

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3220	.0700	.2710	-.3240	-.2600	-.2320	-.0510	-.0710	-.0200	-.0390	-.0080	-.1800	.2360	.3040	.3220
45.000	1.3220	.0290	.1740	-.3460	-.2820	-.1690							.2320	.3480	.3450
90.000	1.3220	.0400	.1760	-.3500	-.2630	-.0890	-.0420	.0100	-.0730	-.0970	.0570	.0010	.2870	.3240	.3560
135.000	1.3220	.0430	.1980	-.3480	-.2540	-.1230							.1290	.3245	.3410
180.000	1.3220	.1040	.3310	-.2950	-.1760	-.0750	-.1870	-.0520	-.1640	.0560	.0000	-.2380	.0870	.3010	.2140
225.000	1.3220	.2670	.4360	-.2520	-.2370	-.0020	-.1500						.0160	.0310	-.1560
270.000	1.3220	.5470	.7290	-.0670	-.4450	-.0430	-.1280	-.0900			-.0230	-.2200	-.0550	-.0310	-.0750
315.000	1.3220	.1490	.4170	-.2850	-.3360	-.0810	-.0600						.1190	.3130	-.0080

X/LS	.9870
PHI	
.000	.3810
45.000	.4340
90.000	.3200
135.000	.2820
180.000	.2640

AMES 11-7D7 IA9 O2A + S3 + T9 SRM BOOSTER (RBMS07)

MACH (5) = 1.392 BETAT (6) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.1330
270.000	.0850
315.000	.3050

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBNS08) (27 APR 79)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .599 BETAT (1) = -8.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0910	.2330	-.1850	-.4960	-.1480	-.0520	-.0260	-.0090	-.0080	-.0330	-.1400	-.0720	.3240	.2220	.1080
45.000	1.0910	.2830	-.1250	-.4240	-.1230	-.0310							.4690	.3520	.2100
90.000	1.0910	.2870	-.1120	-.3800	-.0980	-.0160	.0050	.0070	.0180	.0280	-.0120	.1000	.5290	.4050	.2460
135.000	1.0910	.2240	-.1380	-.4250	-.1060	-.0320							.4800	.3380	.1790
180.000	1.0910	.1860	-.2140	-.4490	-.1020	-.0200	-.0120	.0010	.0450	.0680	-.1160	-.0660	.3350	.2190	.0890
225.000	1.0910	.1950	-.2650	-.6070	-.1260	-.0170	-.0010						.2290	.1890	.0700
270.000	1.0910	.2480	-.0040	-.9270	-.2130	-.0420	.0000	.0120			-.2700	-.0480	.1690	.2430	.1900
315.000	1.0910	.2530	-.2360	-.6380	-.1730	-.0460	-.0070						.2490	.2080	.1280

X/LS	.9670
PHI	
.000	-.0330
45.000	.0340
90.000	.0360
135.000	.0590
180.000	.0530
225.000	-.0760
270.000	.0530
315.000	-.0220

MACH (1) = .598 BETAT (2) = -8.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0940	.2300	-.1800	-.4940	-.1450	-.0510	-.0260	-.0040	-.0080	-.0260	-.1210	-.0290	.3660	.2820	.1490
45.000	1.0940	.2930	-.1310	-.4360	-.1280	-.0370							.4750	.3640	.2170
90.000	1.0940	.2930	-.1300	-.4110	-.1130	-.0260	-.0050	-.0030	.0140	.0200	-.0150	.0970	.5020	.3850	.2190
135.000	1.0940	.2070	-.1560	-.4460	-.1140	-.0390							.4400	.3300	.1680
180.000	1.0940	.1790	-.2160	-.4470	-.1090	-.0290	-.0140	-.0080	.0340	.0530	-.1040	-.0440	.3340	.2400	.0890
225.000	1.0940	.2000	-.2640	-.6280	-.1410	-.0320	-.0170						.2370	.2030	.0840
270.000	1.0940	.2570	-.0040	-.9280	-.2240	-.0580	-.0140	-.0010			-.2400	-.0040	.2040	.270.	.2000
315.000	1.0940	.2600	-.2240	-.6280	-.1870	-.0540	-.0150						.2840	.241.	.1870

X/LS	.9870

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7D7 IA9 CBA + S3 + T9 SRM BOOSTER (RBHS08)

MACH (1) = .998 BETAT (2) = -6.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.0020
45.000	.0440
90.000	.0470
135.000	.0460
180.000	.0330
225.000	-.0630
270.000	.0610
315.000	.0110

MACH (1) = .996 BETAT (3) = -4.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1136	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0960	.2200	-.1880	-.5250	-.1560	-.0610	-.0340	-.0150	-.0130	-.0270	-.0950	.0100	.3880	.3160	.1790
45.000	1.0960	.2230	-.1600	-.4790	-.1440	-.0530							.4620	.3830	.2010
90.000	1.0960	.2150	-.1600	-.4510	-.1300	-.0500	-.0250	-.0200	-.0100	.0040	-.0270	.0920	.4540	.3580	.1890
135.000	1.0960	.1810	-.1930	-.4790	-.1270	-.0520							.3990	.3110	.1470
180.000	1.0960	.1690	-.2320	-.4750	-.1320	-.0450	-.0340	-.0260	.0200	.0350	-.1050	-.0290	.3050	.2390	.0880
225.000	1.0960	.2000	-.2690	-.6540	-.1670	-.0540	-.0320						.2300	.1640	.0780
270.000	1.0960	.2610	-.0010	-.9510	-.2420	-.0730	-.0290	-.0250			-.2290	-.0080	.1770	.2760	.2090
315.000	1.0960	.2610	-.2260	-.6490	-.1980	-.0660	-.0330						.2650	.2680	.1770

X/LS .9670

PHI	
.000	.0290
45.000	.0280
90.000	.0290
135.000	.0290
90.000	.0230
5.000	-.0590
.000	.0670
3.5.000	.0490

AMES 11-7ft IA9 OEA + S3 + T9 SRM BOOSTER (RBMS08)

MACH (1) = .597 BETAT (4) = -2.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0500	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0930	.2160	-.1950	-.5200	-.1630	-.0590	-.0360	-.0170	-.0160	-.0280	-.0910	.0330	.4040	.3390	.1990
45.000	1.0930	.1960	-.1930	-.4990	-.1590	-.0550							.4420	.3570	.1970
90.000	1.0930	.1820	-.1860	-.4820	-.1390	-.0540	-.0330	-.0270	-.0170	-.0060	-.0290	.0870	.4140	.3320	.1790
135.000	1.0930	.1650	-.2080	-.5150	-.1380	-.0550							.3630	.2930	.1410
180.000	1.0930	.1650	-.2320	-.4960	-.1400	-.0550	-.0490	-.0310	.0100	.0120	-.1070	-.0040	.3030	.2480	.0990
225.000	1.0930	.2040	-.2510	-.6700	-.1740	-.0690	-.0450						.2330	.1990	.0800
270.000	1.0930	.2740	.0070	-.9660	-.2440	-.0880	-.0450	-.0290			-.1990	-.0670	.1170	.2520	.1960
315.000	1.0930	.2720	-.2060	-.6440	-.2020	-.0760	-.0340						.2740	.2780	.2210

X/LS	.9670
PHI	
.000	.0470
45.000	.0450
90.000	.0280
135.000	.0060
180.000	.0060
225.000	-.0590
270.000	.0740
315.000	.0800

MACH (1) = .599 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0920	.2030	-.1940	-.5480	-.1710	-.0680	-.0410	-.0190	-.0210	-.0330	-.0840	.0560	.4250	.3780	.2280
45.000	1.0920	.1870	-.2110	-.5410	-.1710	-.0700							.4150	.3480	.1870
90.000	1.0920	.1500	-.2090	-.5180	-.1500	-.0650	-.0410	-.0320	-.0230	-.0140	-.0330	.0880	.3620	.2980	.1450
135.000	1.0920	.1420	-.2330	-.5470	-.1470	-.0660							.3310	.2710	.1260
180.000	1.0920	.1620	-.2330	-.5090	-.1550	-.0710	-.0570	-.0430	-.0010	-.0040	-.1110	.0950	.3030	.2500	.0930
225.000	1.0920	.2140	-.2430	-.6680	-.1820	-.0790	-.0570						.2540	.2000	.0890
270.000	1.0920	.2800	.0150	-.9560	-.2490	-.0940	-.0500	-.0380			-.1970	-.0380	.1740	.2210	.1930
315.000	1.0920	.2790	-.2000	-.6440	-.2100	-.0770	-.0390						.3120	.3240	.2590

X/LS	.9670
PHI	
.000	.0770
45.000	.0400
90.000	.0380
135.000	-.0040
180.000	-.0080

AMES 11-70? IA9 ORA + S3 + T9 SRM BOOSTER (RBM308)

MACH (1) = .598 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	-.0570
270.000	.0820
315.000	.1140

MACH (1) = .599 BETAT (6) = 2.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0890	.1960	-.1950	-.5450	-.1770	-.0690	-.0440	-.0180	-.0250	-.0360	-.0730	.0730	.4500	.3880	.2480
45.000	1.0890	.1400	-.2380	-.5540	-.1720	-.0710							.3800	.3190	.1890
90.000	1.0890	.1240	-.2370	-.5370	-.1540	-.0630	-.0440	-.0330	-.0210	-.0120	-.0280	.0800	.3150	.2640	.1180
135.000	1.0890	.1290	-.2420	-.5680	-.1530	-.0700							.3290	.2830	.1190
180.000	1.0890	.1610	-.2250	-.5050	-.1590	-.0810	-.0650	-.0450	-.0060	-.0170	-.1140	.0120	.2820	.2370	.1050
225.000	1.0890	.2250	-.2270	-.6500	-.1810	-.0800	-.0620						.2240	.1850	.0780
270.000	1.0890	.2920	.0290	-.9250	-.2470	-.0950	-.0570	-.0370			-.1720	-.0560	.1020	.1580	.1510
315.000	1.0890	.2900	-.1810	-.6310	-.2000	-.0820	-.0330						.3840	.3180	.2870

X/LS .9870

PHI	
.000	.0780
45.000	.0320
90.000	.0260
135.000	-.0260
180.000	-.0290
225.000	-.0300
270.000	.0380
315.000	.1520

MACH (1) = .598 BETAT (7) = 4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0810	.1920	-.2010	-.5540	-.1850	-.0860	-.0570	-.0310	-.0320	-.0480	-.0730	.0780	.4880	.4030	.2510
45.000	1.0810	.1120	-.2550	-.5810	-.1850	-.0840							.3990	.2980	.1485
90.000	1.0810	.0960	-.2560	-.5990	-.1580	-.0690	-.0460	-.0400	-.0270	-.0290	-.0520	.0840	.2730	.2340	.0850
135.000	1.0810	.1020	-.2760	-.5970	-.1620	-.0820							.3150	.2340	.0880
180.000	1.0810	.1480	-.2430	-.5290	-.1850	-.0980	-.0830	-.0570	-.0150	-.0300	-.1000	.0120	.2910	.2480	.1010
225.000	1.0810	.2260	-.2160	-.6250	-.1930	-.0920	-.0670						.2780	.1870	.0880

AMES 11-7ft IA9 CEA + 53 + 79 SRM BOOSTER (RBM5D0)

MACH (1) = .596 BETAT (7) = 4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.0810	.3070	.0340	-.9000	-.2550	-.1030	-.0810	-.0520			-.1920	-.0780	.1960	.2080	.1810
315.000	1.0810	.2940	-.1760	-.6060	-.2010	-.0880	-.0430						.4140	.3370	.3350

X/LS .9670

PHI	
.000	.0940
45.000	-.0030
90.000	-.0030
135.000	-.0480
180.000	-.0480
225.000	-.0480
270.000	.0330
315.000	.1870

MACH (1) = .598 BETAT (8) = 6.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0890	.1820	-.1990	-.5970	-.1940	-.0980	-.0650	-.0400	-.0440	-.0500	-.0720	.0000	.5230	.4280	.2910
45.000	1.0890	.0900	-.2740	-.6050	-.1940	-.0980							.3810	.2870	.1220
90.000	1.0890	.0710	-.2800	-.5800	-.1500	-.069.	-.0480	-.0400	-.0260	-.0200	-.0310	.0830	.2900	.2190	.0[illegible]
135.000	1.0890	.0780	-.2920	-.6070	-.1660	-.0800							.3050	.2180	.0750
180.000	1.0890	.1330	-.2530	-.5390	-.1980	-.1100	-.0890	-.0840	-.0150	-.0290	-.0790	.0130	.3200	.2410	.0980
225.000	1.0890	.2280	-.1990	-.6040	-.2000	-.0990	-.0670						.2950	.1450	.0190
270.000	1.0890	.3230	.0420	-.8640	-.2500	-.1060	-.0670	-.0580			-.1730	-.0580	.2330	.1990	.1230
315.000	1.0890	.3170	-.1430	-.5390	-.1980	-.0810	-.0380						.4800	.4120	.3790

X/LS .9670

PHI	
.000	.1990
45.000	-.0090
90.000	-.0120
135.000	-.0610
180.000	-.0840
225.000	-.0830
270.000	-.0290
315.000	.2330

[illegible] RELATED PRESSURE DATA - [illegible]

[illegible] 11-[illegible] [illegible] + 93 + 79 SRM BOOSTER (BSMSDB)

[illegible] BETA1 [illegible] = 0.140

[illegible] 1-SRM BOOSTER DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1429	[illegible]	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
[illegible]															
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]								[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]								[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]								[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						[illegible]	[illegible]	[illegible]

[illegible] [illegible]

[illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] [illegible] BETA1 (1) = -0.180

[illegible] 1-SRM BOOSTER DEPENDENT VARIABLE CP

[illegible]	.0541	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
[illegible]														
[illegible]	1.2090	.3480	.0800	-1.0520	-.7050	.0030	-.0210	.0010	.0260	.0160	-.0760	-.1050	.5030	.2490	.1370
[illegible]	1.2090	.3810	.1240	-1.0020	-.6260	.0150							.4910	.4300	.2940
[illegible]	1.2090	.3830	.1250	-.9960	-.5640	.0320	.0060	.0050	.0510	.0940	.0100	.0680	.5810	.4980	.3390
[illegible]	1.2090	.3230	.0860	-1.0390	-.2440	.0190							.4940	.4410	.2700
[illegible]	1.2090	.2360	.0370	-1.0580	-.2870	.0220	-.0200	-.0320	.0860	.1830	.0360	-.0400	.7450	.5010	.1350
[illegible]	1.2090	.3060	.0460	-1.0850	-.3400	-.0060	-.0090						.1460	.0750	.0260
[illegible]	1.2090	.3620	.3590	-.7970	-.5750	-.0360	-.0050	.0060			-.1730	-.2030	.1020	.1930	.2470
[illegible]	1.2090	.3660	.1110	-1.0470	-.5590	.0080	-.0070						.1500	.1250	.1460

[illegible] .9679

[illegible]

[illegible]
.0000
45.0000
90.0000
135.0000
180.0000

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-7CF IA9 CCA + S3 + T9 SRM BOOSTER (RBNS08)

MACH (2) = .902 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI
225.000 .0030
270.000 .1500
315.000 .0650

MACH (2) = .901 BETAT (2) = -8.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2120	.3500	.0800	-1.0560	-.7140	.0100	-.0200	-.0050	.0200	.0160	-.0750	-.0600	.3520	.3040	.2020
													.4980	.4420	.3030
45.000	1.2120	.3610	.1070	-1.0200	-.6670	.0190									
90.000	1.2120	.3540	.1090	-1.0240	-.6200	.0280	-.0060	-.0090	.0350	.0730	-.0030	.0760	.5280	.4750	.3180
													.4670	.4220	.2950
135.000	1.2120	.3100	.0770	-1.0520	-.2900	.0180									
180.000	1.2120	.2910	.0390	-1.0610	-.2950	.0250	-.0320	-.0350	.0660	.1480	.0120	-.0170	.3510	.3110	.1480
													.1660	.0910	.0480
225.000	1.2120	.3120	.0530	-1.0890	-.3800	-.0270	-.0260								
270.000	1.2120	.3750	.3560	-.8010	-.5990	-.0530	-.0130	-.0090			-.1730	-.1750	.1180	.2010	.2440
													.1700	.1630	.1970
315.000	1.2120	.3770	.1160	-1.0490	-.5680	-.0020	-.0120								

X/LS .9670

PHI
.000 .0950
45.000 .1310
90.000 .1500
135.000 .1520
180.000 .1020
225.000 .0150
270.000 .1540
315.000 .1030

MACH (2) = .899 BETAT (3) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2120	.3480	.0810	-1.0590	-.7150	.0100	-.0190	-.0090	.0070	.0080	-.0740	-.0540	.3770	.3580	.2480
													.4800	.4430	.2990
45.000	1.2120	.3390	.0850	-1.0300	-.6960	.0240									
90.000	1.2120	.3240	.0870	-1.0380	-.6730	.0280	-.0190	-.0330	.0150	.0540	-.0150	.0890	.4800	.4447	.2[illegible]
													.4260	.4000	.2[illegible]
135.000	1.2120	.2980	.0610	-1.0580	-.3910	.0230									
180.000	1.2120	.2910	.0410	-1.0570	-.3880	.0160	-.0430	-.0530	.0490	.1[illegible]	-.0140	-.0130	.3480	.3140	.144[illegible]
.000	1.2120	.3230	.0640	-1.0790	-.6270	.0030	-.0400						.18[illegible]	.1170	.[illegible]

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 G2A + S3 + T9 SRM BOOSTER (RBMSD8)

MACH (2) = .899 BETAT (3) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.2120	.3880	.3720	-.7980	-.6670	-.0670	-.0250	-.0270			-.1630	-.1480	.1210	.2000	.2380
315.000	1.2120	.3890	.1220	-1.0420	-.5840	-.0260	-.0270						.1930	.1840	.2280

X/LS	.9670
PHI	
.000	.1240
45.000	.1240
90.000	.1400
135.000	.1280
180.000	.0840
225.000	.0150
270.000	.1570
315.000	.1420

MACH (2) = .900 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2150	.3440	.0820	-1.0600	-.7200	.0190	-.0230	-.0100	.0090	.0070	-.0810	.0120	.3970	.3920	.2810
45.000	1.2150	.3190	.0820	-1.0420	-.7320	.0350							.4610	.4320	.2870
90.000	1.2150	.3000	.0670	-1.0520	-.7250	.0380	-.0300	-.0380	.0100	.0390	-.0310	.0910	.4370	.4120	.2560
135.000	1.2150	.2850	.0500	-1.0650	-.5360	.0330							.4070	.3770	.2200
180.000	1.2150	.2960	.0500	-1.0560	-.6550	.0180	-.0640	-.0560	.0450	.0870	-.0420	-.0010	.3480	.3170	.1510
225.000	1.2150	.3380	.0790	-1.0710	-.6380	.0000	-.0540						.2110	.1200	.0460
270.000	1.2150	.4040	.3810	-.7950	-.7020	-.0760	-.0300	-.0390			-.1650	-.1270	.1240	.2010	.2250
315.000	1.2150	.4020	.1210	-1.0390	-.6400	-.0290	-.0290						.2140	.2220	.2425

X/LS	.9670
PHI	
.000	.1690
45.000	.1300
90.000	.1280
135.000	.0980
180.000	.0690
225.000	.0140
270.000	.1420
315.000	.1780

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS08)

MACH (2) = .902 BETAT (5) = 2.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2150	.3310	.0740	-1.0610	-.7220	.0170	-.0320	-.0170	.0000	-.0110	-.0830	.0370	.4810	.4590	.3400
													.3980	.4020	.2880
45.000	1.2150	.2720	.0280	-1.0630	-.7830	.0370									
90.000	1.2150	.2570	.0280	-1.0760	-.7980	.0490	-.0420	-.0310	.0000	.0170	-.0500	.0080	.3670	.3440	.2050
													.3800	.3290	.1880
135.000	1.2150	.2610	.0230	-1.0790	-.7770	.0310									
180.000	1.2150	.3010	.0540	-1.0540	-.6960	.0000	-.1010	-.0520	.0240	.0380	-.0880	.0060	.3110	.3070	.1550
													.2400	.1580	.0670
225.000	1.2150	.3580	.1090	-1.0540	-.8900	-.0420	-.0850								
270.000	1.2150	.4370	.4000	-.7930	-.5900	-.0840	-.0560	-.0520			-.1520	-.1340	.1330	.2030	.2110
													.3220	.3170	.3220
315.000	1.2150	.4280	.1480	-1.0260	-.9690	-.0410	-.0370								

X/LS	.9670
PHI	
.000	.1990
45.000	.0990
90.000	.1000
135.000	.0440
180.000	.0430
225.000	.0080
270.000	.1290
315.000	.2420

MACH (2) = .903 BETAT (6) = 4.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2080	.3290	.0710	-1.0800	-.7180	.0090	-.0400	-.0170	-.0090	-.0290	-.0950	.0080	.5240	.4980	.3080
													.3850	.3790	.2480
45.000	1.2080	.2510	.0080	-1.0710	-.7940	.0220									
90.000	1.2080	.2310	.0070	-1.0850	-.4380	.0270	-.0490	-.0350	.0000	.0110	-.0580	.0950	.3350	.3180	.1850
													.3470	.2950	.1540
135.000	1.2080	.2410	.0030	-1.0870	-.7910	.0220									
180.000	1.2080	.2930	.0490	-1.0540	-.6880	-.0130	-.1150	-.0610	.0200	.0220	-.0880	.0230	.3470	.3270	.1510
													.2080	.1930	.0920
225.000	1.2080	.3780	.1220	-1.0360	-.9330	-.0340	-.0900								
270.000	1.2080	.4520	.4020	-.7890	-.6450	-.0730	-.0660	-.0590			-.1450	-.1090	.1720	.2540	.2280
													.4010	.3770	.3780
315.000	1.2080	.4360	.1550	-1.0150	-.9470	-.0310	-.0330								

X/LS	.9670
PHI	
.000	.2190
45.000	.0820
90.000	.0810
135.000	.0130
000	.0110

AMES 11-7D7 IA9 O2A + S3 + T9 SRM BOOSTER (RBM308)

MACH (2) = .903 BETAT (6) = 4.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
229.000	.0070
270.000	.1130
315.000	.2800

MACH (2) = .904 BETAT (7) = 6.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2000	.3230	.0630	-1.0590	-.7060	-.0060	-.0470	-.0200	-.0070	-.0280	-.0960	.0660	.5890	.5350	.3850
45.000	1.2000	.2290	-.0150	-1.0820	-.7850	-.0040							.5390	.3760	.2230
90.000	1.2000	.2100	-.0150	-1.0950	-.4210	-.0060	-.0490	-.0240	.0060	.0120	-.0590	.0860	.3340	.2970	.1440
135.000	1.2000	.2280	-.0140	-1.0960	-.7210	-.0010							.3410	.2770	.1360
180.000	1.2000	.2870	.0450	-1.0550	-.6770	-.0320	-.1400	-.0570	.0240	.0240	-.0900	.0030	.3670	.2930	.1250
225.000	1.2000	.3830	.1360	-1.0270	-.9120	-.0300	-.1090						.2550	.0880	-.0300
270.000	1.2000	.4640	.4050	-.7840	-.6140	-.0590	-.0810	-.0710			-.1510	-.1150	.1810	.1890	.1380
315.000	1.2000	.4480	.1750	-1.0040	-.9100	-.0090	-.0270						.4220	.3980	.4130

X/LS .9670

PHI	
.000	.2480
45.000	.0560
90.000	.0370
135.000	-.0100
180.000	-.0110
225.000	-.0180
270.000	.0010
315.000	.3090

MACH (2) = .901 BETAT (8) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1890	.3120	.0570	-1.0530	-.6940	-.0320	-.0590	-.0320	-.0210	-.0350	-.1090	.0870	.5930	.5500	.3890
45.000	1.1890	.2000	-.0390	-1.0900	-.5240	-.0560							.5380	.3920	.1820
90.000	1.1890	.1930	-.0390	-1.0980	-.4330	-.0650	-.0420	-.0380	.0030	.0060	-.0870	.0710	.3490	.2820	.1090
135.000	1.1890	.2100	-.0310	-1.1000	-.5720	-.0910							.3180	.2550	.0970
180.000	1.1890	.2820	.0440	-1.0480	-.6600	-.0550	-.1530	-.0860	.0230	.0340	-.0850	-.0460	.3360	.2150	.0530
225.000	1.1890	.3930	.1530	-1.0080	-.8640	-.0410	-.1230						.1980	-.0030	-.0740

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM500)

MACH (2) = .901 BETAT (8) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.1890	.4630	.3990	-.7760	-.9180	-.0610	-.0910	-.0990			-.1530	-.1440	.1660	.1080	-.0070
315.000	1.1890	.4530	.1830	-.9880	-.8710	-.0160	-.0260						.3870	.4350	.4480

X/LS .9670

PHI	
.000	.2300
45.000	.0370
90.000	.0210
135.000	-.0380
180.000	-.0380
225.000	-.0370
270.000	-.1420
315.000	.3290

MACH (3) = 1.099 BETAT (1) = -9.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3190	.4780	.3050	-.6130	-.4090	-.2580	.0780	.0230	-.0180	.0510	.0620	-.2680	.1780	.3190	.2320
45.000	1.3190	.5090	.3490	-.5730	-.3460	-.1710							.3100	.4980	.3900
90.000	1.3190	.4970	.3490	-.5720	-.3200	-.1400	.1430	.0710	-.0440	.1570	.1610	-.1130	.3700	.5680	.4500
135.000	1.3190	.4270	.2990	-.6100	-.3880	-.0710							.3190	.5680	.4150
180.000	1.3190	.3870	.2430	-.6280	-.4530	.0380	.1340	.0170	-.0820	.2870	.2570	-.3720	.2030	.5030	.2910
225.000	1.3150	.4080	.2420	-.6580	-.6710	-.0310	.1180						.0590	.1520	.0400
270.000	1.3190	.4880	.5390	-.4040	-.7180	-.1070	.0430	-.0920			-.0750	-.1980	.0930	.0880	.2210
315.000	1.3190	.4840	.3410	-.6050	-.6090	-.1080	.0390						.0390	.0870	.1870

X/LS .9670

PHI	
.000	.1880
45.000	.2690
90.000	.3000
135.000	.3340
180.000	.2940
225.000	.1860
270.000	.2230
315.000	.1820

AMES 11-707 IA9 O2A + S3 + T9 SRM BOOSTER (RBHS08)

MACH (3) = 1.100 BETAT (2) = -6.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3130	.4660	.3080	-.6070	-.3990	-.2690	.0740	.0230	-.0090	.0190	.0480	-.2300	.2340	.3720	.2980
45.000	1.3130	.4760	.3360	-.5780	-.3650	-.1760							.3430	.5070	.4130
90.000	1.3130	.4630	.3350	-.5800	-.3490	-.1460	.1380	.0530	-.0560	.1150	.1380	-.1100	.3620	.5390	.4420
135.000	1.3130	.4070	.2930	-.6070	-.3970	-.0910							.3100	.5460	.4130
180.000	1.3130	.3850	.2560	-.6180	-.4420	.0070	.1350	.0110	-.0970	.2510	.2070	-.3800	.2040	.4830	.2990
225.000	1.3130	.4050	.2590	-.6470	-.6570	-.0600	.1050						.0890	.1610	.0430
270.000	1.3130	.4670	.5470	-.3970	-.8250	-.1040	.0470	-.0550			-.0890	-.1770	.0520	.1050	.2300
315.000	1.3130	.4780	.3460	-.6000	-.5940	-.1000	.0530						.0620	.1070	.2310

X/LS	.9670
PHI	
.000	.2380
45.000	.2780
90.000	.3110
135.000	.3160
180.000	.2850
225.000	.1660
270.000	.2230
315.000	.1980

MACH (3) = 1.100 BETAT (3) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3070	.4570	.3140	-.6090	-.3930	-.2780	.0650	.0370	-.0130	-.0120	.0340	-.1590	.2950	.4120	.3550
45.000	1.3070	.4450	.3220	-.5870	-.3840	-.1860							.3690	.5080	.4270
90.000	1.3070	.4260	.3210	-.5880	-.3770	-.1370	.1490	.0450	-.0790	.0810	.1160	-.1140	.3670	.5010	.4270
135.000	1.3070	.3900	.2850	-.6140	-.4130	-.1110							.3130	.5200	.4020
180.000	1.3070	.3820	.2580	-.6090	-.4350	-.0150	.1450	-.0090	-.1190	.2100	.1670	-.3040	.2590	.4610	.2950
225.000	1.3070	.4090	.2700	-.6450	-.6510	-.0030	.1170						.1330	.1580	.0340
270.000	1.3070	.4660	.5490	-.3980	-.8330	-.0840	.0620	-.0300			-.0940	-.1540	.0670	.1270	.2490
315.000	1.3070	.4900	.3520	-.5990	-.5820	-.0980	.0540						.0970	.1340	.2410

X/LS	.9670
PHI	
.000	.2820
45.000	.2850
90.000	.3080
135.000	.3090
180.000	.2780

AMES 11-707 IA9 OBA + S3 + T9 SRM BOOSTER (RBNS08)

MACH (3) = 1.100 BETAT (3) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.1690
270.000	.2250
315.000	.2420

MACH (3) = 1.099 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2980	.4390	.3100	-.6050	-.3840	-.2580	.0640	.0370	-.0270	-.0300	.0200	-.1250	.3130	.4390	.3990
45.000	1.2980	.4110	.3010	-.5930	-.4040	-.1630							.3380	.4820	.4280
90.000	1.2980	.3870	.3010	-.3950	-.4060	-.1320	.1260	.0190	-.0920	.0580	.0830	-.1210	.3520	.4670	.4040
135.000	1.2980	.3740	.2740	-.6170	-.4270	-.1170							.3250	.4890	.3870
180.000	1.2980	.3780	.2640	-.6080	-.4260	-.0520	.1320	-.0320	-.1420	.1660	.1130	-.2700	.2670	.4380	.2820
225.000	1.2980	.4050	.2790	-.6360	-.6360	-.0190	.1090						.1580	.1510	.0440
270.000	1.2980	.4620	.5530	-.3940	-.8310	-.0620	.0570	-.0250			-.0940	-.1320	.0850	.1340	.2500
315.000	1.2980	.4780	.3570	-.3910	-.5720	-.0880	.0490						.1150	.1740	.2470

X/LS .9670

PHI	
.000	.2940
45.000	.3090
90.000	.3150
135.000	.2830
180.000	.2620
225.000	.1630
270.000	.2180
315.000	.2680

MACH (3) = 1.100 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2800	.3980	.3030	-.6080	-.3510	-.2080	-.0230	.0300	-.0330	-.0610	.0300	-.1510	.3330	.4840	.4570
45.000	1.2800	.3620	.2890	-.6040	-.4280	-.1950							.2830	.3745	.3880
90.000	1.2800	.3380	.2690	-.6150	-.4370	-.1150	.0780	-.0150	-.1190	.0310	.0710	-.1040	.2850	.3730	.3360
135.000	1.2800	.3380	.2540	-.6150	-.4340	-.1280							.2720	.3780	.3240
180.000	1.2800	.3630	.2710	-.6090	-.3890	-.1130	.0790	-.0910	-.1640	.0880	.0630	-.2700	.2430	.5310	.2770
.000	1.2800	.3880	.3070	-.6170	-.3930	-.0610	.0700						.2070	.1441	.380

AMES 11-707 IA9 02A + 53 + T9 SRM BOOSTER (RBM308)

MACH (3) = 1.100 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.2800	.4320	.3690	-.3780	-.8190	-.0250	.0190	-.0330			-.0400	-.1490	.0840	.1910	.2190
315.000	1.2800	.4540	.3690	-.5730	-.5380	-.0570	-.0280						.2150	.3120	.3020

X/LS	.9670
PHI	
.000	.3400
45.000	.3550
90.000	.2920
135.000	.2300
180.000	.2140
225.000	.1220
270.000	.1840
315.000	.3290

MACH (3) = 1.097 BETAT (6) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2700	.3860	.3030	-.6090	-.3430	-.1730	-.0680	.0170	-.0600	-.0530	.0170	-.0550	.4310	.5440	.4850
45.000	1.2700	.3340	.2480	-.6170	-.4420	-.2090							.2460	.3570	.3830
90.000	1.2700	.3180	.2480	-.6280	-.4600	-.1140	.0630	-.0260	-.1430	.0580	.0530	-.0740	.2960	.3650	.2940
135.000	1.2700	.3190	.2360	-.6300	-.4450	-.1240							.2630	.3570	.2820
180.000	1.2700	.3340	.2670	-.6130	-.3770	-.1400	.0610	-.1260	-.1970	.0740	.0410	-.2540	.2880	.3520	.1980
225.000	1.2700	.3650	.3220	-.6020	-.5760	-.0780	.0590						.2270	.1340	.0160
270.000	1.2700	.3950	.5790	-.3750	-.8200	-.0220	.0020	-.0520			-.0280	-.1610	.0690	.1130	.1690
315.000	1.2700	.4250	.3840	-.5580	-.5170	-.0520	-.0620						.3350	.3010	.2870

X/LS	.9670
PHI	
.000	.3590
45.000	.3040
90.000	.2800
135.000	.1900
180.000	.1700
225.000	.0930
270.000	.1680
315.000	.2970

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS08)

MACH (3) = 1.100 BETAT (7) = 8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2550	.3410	.2970	-.6070	-.3350	-.1540	-.1060	.0040	-.0750	.0050	.0290	-.0820	.5290	.5340	.4690
45.000	1.2550	.2800	.2240	-.6290	-.4510	-.2020							.2930	.4180	.3[illegible]
90.000	1.2550	.2680	.2240	-.6380	-.4760	-.1050	.0370	-.0580	-.1660	.0470	.0630	-.1100	.3880	.3820	.2680
135.000	1.2550	.2750	.2160	-.6390	-.4430	-.1310							.3280	.3800	.2400
180.000	1.2550	.2970	.2630	-.6070	-.3690	-.1730	.0350	-.1530	-.2110	.0940	.0440	-.2430	.3130	.3380	.1910
225.000	1.2550	.3245	.3350	-.5890	-.5370	-.0920	.0390						.1950	.0480	-.0800
270.000	1.2550	.3540	.5870	-.3710	-.7810	-.0290	-.0130	-.0710			-.0300	-.1950	.0350	.0940	.1220
315.000	1.2550	.3960	.4030	-.5390	-.4650	-.0510	-.0760						.3280	.2700	.2930

X/LS	.9670
PHI	
.000	.3860
45.000	.2900
90.000	.2480
135.000	.1620
180.000	.1370
225.000	.0520
270.000	.0910
315.000	.3150

MACH (3) = 1.101 BETAT (8) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2370	.3070	.2940	-.5990	-.3400	-.1650	-.1330	-.0080	-.0260	-.0550	.0380	-.0930	.5220	.5180	.4700
45.000	1.2370	.2310	.1980	-.6440	-.4590	-.1770							.3820	.4470	.3500
90.000	1.2370	.2400	.1970	-.6500	-.4940	-.0850	.0130	-.0500	-.1520	.0550	.0840	-.1410	.4010	.3840	.2500
135.000	1.2370	.2380	.2010	-.6490	-.4530	-.1390							.3380	.3310	.2070
180.000	1.2370	.2560	.2720	-.6040	-.3560	-.2060	.0130	-.1850	-.0310	.1000	.0230	-.2100	.2810	.2450	.0730
225.000	1.2370	.2970	.3440	-.5890	-.4920	-.1400	.0200						.1430	-.0490	-.1040
270.000	1.2370	.3250	.5900	-.3710	-.7840	-.0520	-.0260	-.1000			-.0420	-.2200	.0250	.0320	.0450
315.000	1.2370	.3790	.4130	-.5380	-.4320	-.0480	-.0680						.2760	.2830	.3150

X/LS	.9670
PHI	
.000	.3370
45.000	.2320
90.000	.2140
135.000	.1490
[illegible].000	.1180

AMES 11-70T IA9 OEA + S3 + T9 SRM BOOSTER (RBMS08)

MACH (3) = 1.101 BETAT (8) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0210
270.000	-.0260
315.000	.3430

MACH (4) = 1.246 BETAT (1) = -8.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3890	.4530	.3960	-.4080	-.2810	-.2670	.0110	.0630	.0140	-.0060	.0830	-.1680	.1250	.2720	.1980
45.000	1.3890	.4580	.4350	-.3770	-.2290	-.1230							.2500	.4160	.3820
90.000	1.3890	.4370	.4360	-.3790	-.2160	-.1180	-.0100	.1350	.0230	.0100	.1770	-.0020	.3110	.4770	.4430
135.000	1.3890	.3720	.3620	-.4150	-.2840	-.1940							.1940	.4640	.4460
180.000	1.3890	.3590	.2950	-.4380	-.3550	-.0240	.0390	.0830	-.0180	.2700	.2630	-.2220	.0510	.4880	.3930
225.000	1.3890	.4040	.2920	-.4690	-.5370	-.0960	.0530						.0700	.2030	.1100
270.000	1.3890	.4720	.6380	-.2190	-.6450	-.1890	.0250	-.0450			-.1330	-.1720	.0560	.0310	.1870
315.000	1.3890	.4790	.4350	-.4060	-.4370	-.1900	.0420						.0750	.0510	.1900

X/LS .9670

PHI	
.000	.1970
45.000	.2710
90.000	.3410
135.000	.3870
180.000	.3600
225.000	.2650
270.000	.2300
315.000	.2220

MACH (4) = 1.250 BETAT (2) = -6.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3820	.4140	.3910	-.4000	-.2820	-.2700	.0240	.0440	.0050	-.0030	.0680	-.1590	.1830	.3100	.2710
45.000	1.3820	.3850	.4130	-.3790	-.2450	-.1370							.2660	.4270	.3880
90.000	1.3820	.3490	.4140	-.3810	-.2460	-.1350	-.0330	.1280	.0030	-.0180	.1560	-.0070	.2930	.4490	.4200
135.000	1.3820	.2800	.3460	-.4130	-.2910	-.1530							.1900	.4710	.4290
180.000	1.3820	.3140	.2910	-.4280	-.3360	-.0910	.0390	.0720	-.0490	.1880	.2330	-.2250	.0700	.4520	.3900
225.000	1.3820	.3790	.2920	-.4670	-.5230	-.0860	.0470						.0950	.2140	.0940

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBMSD8)

MACH (4) = 1.250 BETAT (2) = -6.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3820	.4340	.6370	-.2150	-.6400	-.1990	.0360	-.0060			-.1610	-.1470	.0580	.0170	.1830
315.000	1.3820	.4610	.4370	-.3980	-.4310	-.2340	.0480						.0820	.0450	.1890

X/LS	.9670
PHI	
.000	.2070
45.000	.2900
90.000	.3480
135.000	.3650
180.000	.3480
225.000	.2540
270.000	.2400
315.000	.2390

MACH (4) = 1.249 BETAT (3) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0807	.1138	.1422	.1991	.2844	.3997	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3740	.3800	.3880	-.4040	-.2830	-.2750	.0290	.0270	.0010	-.0110	.0720	-.1150	.2190	.3420	.3290
45.000	1.3740	.3110	.3880	-.3890	-.2650	-.1590							.2820	.4280	.3980
90.000	1.3740	.2690	.3810	-.3890	-.2660	-.1410	-.0500	.1000	-.0140	-.0410	.1430	-.0070	.2680	.4310	.4080
135.000	1.3740	.2020	.3380	-.4170	-.2990	-.1300							.1910	.4850	.4230
180.000	1.3740	.2560	.3020	-.4200	-.3150	-.1220	.0410	.0550	-.0740	.1300	.1880	-.2360	.0790	.4230	.3840
225.000	1.3740	.3580	.3090	-.4600	-.5050	-.0260	.0530						.1060	.2120	.0870
270.000	1.3740	.4480	.6400	-.2140	-.6340	-.1720	.0470	.0000			-.1120	-.1330	.0620	.0480	.0850
315.000	1.3740	.4530	.4350	-.3990	-.4290	-.2670	.0490						.0900	.0870	.1850

X/LS	.9670
PHI	
.000	.1990
45.000	.3200
90.000	.3570
135.000	.3540
180.000	.3390
225.000	.2390
270.000	.2320
315.000	.2380

AMES 11-7X7 IA9 02A + S3 + T9 SRM BOOSTER (RBMS08)

MACH (4) = 1.240 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3600	.2950	.3720	-.4080	-.2950	-.2650	.0150	.0040	.0020	-.0230	.0580	-.1050	.2240	.3500	.3770
45.000	1.3600	.2330	.3590	-.3990	-.2830	-.1760							.2690	.4030	.3980
90.000	1.3600	.2120	.3600	-.3990	-.2810	-.1470	-.0470	.0780	-.0370	-.0580	.1150	-.0210	.2790	.4080	.3890
135.000	1.3600	.1600	.3240	-.4190	-.2960	-.1240							.1910	.4910	.4170
180.000	1.3600	.2010	.3130	-.4160	-.3110	-.1120	.0650	.0310	-.1050	.0950	.1260	-.2570	.1050	.4040	.3870
225.000	1.3600	.3560	.3300	-.4460	-.4560	-.0250	.0630						.1120	.2140	.2960
270.000	1.3600	.4400	.6460	-.2110	-.6360	-.1480	.0460	-.0140			-.0860	-.1410	.0930	.0840	.1480
315.000	1.3600	.4480	.4330	-.3990	-.4320	-.2280	.0270						.0870	.1250	.1780

X/LS	.9670
PHI	
.000	.2770
45.000	.3550
90.000	.3550
135.000	.3360
180.000	.3260
225.000	.2210
270.000	.2220
315.000	.2820

MACH (4) = 1.240 BETAT (5) = 2.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3330	.3410	.3470	-.4190	-.3030	-.2390	-.0260	-.0270	-.0030	-.0390	.0230	-.0510	.2480	.3970	.4010
45.000	1.3330	.1840	.3050	-.4240	-.3200	-.1930							.2620	.4240	.3980
90.000	1.3330	.1280	.3030	-.4240	-.3220	-.1540	-.0330	.0410	-.0600	-.0580	.0890	-.0590	.2790	.3890	.3880
135.000	1.3330	.1400	.2800	-.4320	-.3160	-.1390							.2140	.3980	.3840
180.000	1.3330	.2910	.2960	-.4250	-.3090	-.1210	-.0130	.0080	-.1470	.0830	.0210	-.1970	.1660	.3350	.2990
225.000	1.3330	.3660	.3420	-.4440	-.4790	-.0230	.0060						.1460	.1880	.3080
270.000	1.3330	.4190	.6510	-.2130	-.6340	-.0960	.0060	-.0390			-.0510	-.1570	.0910	.0910	.1840
315.000	1.3330	.4230	.4270	-.4010	-.4240	-.1580	-.0180						.1170	.2990	.1920

X/LS	.9670
PHI	
.000	.3410
45.000	.4010
90.000	.3430
135.000	.2980
180.000	.2980

AMES 11-707 IA9 CRA + S3 + T9 SRM BOOSTER (RBW308)

MACH (4) = 1.248 BETAT (5) = 2.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.9870
PHI	
225.000	.1910
270.000	.2000
315.000	.3230

MACH (4) = 1.248 BETAT (6) = 4.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8249	.8817	.9044	.9388
PHI															
.000	1.3170	.3310	.3380	-.4240	-.2990	-.2190	-.0320	-.0390	-.0110	-.0470	.0090	-.0010	.2920	.4720	.4900
45.000	1.3170	.1410	.2740	-.4330	-.3350	-.1920							.2390	.3100	.3410
90.000	1.3170	.0830	.2720	-.4320	-.3260	-.1260	-.0390	.0270	-.0850	-.0470	.0800	-.0360	.3380	.3550	.3230
135.000	1.3170	.0840	.2790	-.4310	-.3130	-.1190							.1830	.3380	.3430
180.000	1.3170	.2550	.3110	-.4230	-.2860	-.1130	-.0340	-.0160	-.1640	.0650	.0310	-.1860	.1880	.3480	.2580
225.000	1.3170	.3300	.3640	-.4290	-.4440	-.0010	-.0200						.1650	.2130	.0440
270.000	1.3170	.3930	.6570	-.2060	-.6250	-.0270	-.0260	-.0370			-.0210	-.1910	.0520	.0930	.1550
315.000	1.3170	.4090	.4340	-.3880	-.4070	-.0790	-.0500						.2560	.3180	.1770

X/LS	.9870
PHI	
.000	.2800
45.000	.4210
90.000	.3210
135.000	.2820
180.000	.2930
225.000	.1390
270.000	.2020
315.000	.3170

MACH (4) = 1.247 BETAT (7) = 6.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8249	.8817	.9044	.9388
PHI															
.000	1.2970	.2980	.3250	-.4240	-.2800	-.1940	-.0990	-.0390	-.0180	-.0410	.0210	-.0390	.4120	.4750	.3290
45.000	1.2970	.1440	.2450	-.4450	-.3490	-.1920							.2400	.3230	.3840
90.000	1.2970	.0930	.2480	-.4410	-.3330	-.1100	-.0410	.0090	-.0760	.0190	.0620	-.0990	.3810	.3890	.3740
135.000	1.2970	.1300	.2690	-.4400	-.3210	-.1270							.1970	.3390	.3410
180.000	1.2970	.2310	.3100	-.4240	-.2780	-.0950	-.0830	-.0320	-.1800	.0950	.0410	-.1800	.1840	.3880	.2210
9.000	1.2970	.3120	.3780	-.4240	-.4220	.0130	-.0180						.1410	.3230	.1740

[illegible]

[illegible]

[illegible]

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM509) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .598 BETAT (1) = -8.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0730	.3010	-.1240	-.4860	-.12[illegible]	-.0420	-.0130	.0100	.0100	-.0090	-.1080	-.0350	.3890	.2870	.1550
45.000	1.0730	.3170	-.0670	-.3800	-.1030	-.0160							.5170	.3930	.2450
90.000	1.0730	.2690	-.0690	-.3830	050	-.0250	-.0030	.0040	.0160	.0350	.0060	.1050	.5220	.3940	.2350
135.000	1.0730	.1620	-.1680	-.4640	-.1300	-.0560							.4250	.3050	.1420
180.000	1.0730	.1230	-.2700	-.4760	-.1190	-.0300	-.0180	-.0030	.0470	.0810	-.0830	-.0670	.3000	.2000	.0520
225.000	1.0730	.1330	-.3440	-.6900	-.1410	-.0220	-.0040						.2130	.2000	.0820
270.000	1.0730	.2120	-.0350	-.9590	-.2620	-.0850	-.0260	-.0130			-.2370	.0150	.2040	.2660	.2180
315.000	1.0730	.2790	-.1540	-.3360	-.1630	-.0410	.0030						.3140	.2550	.1530

X/LS	.9670
PHI	
.000	.0120
45.000	.0550
90.000	.0570
135.000	.0270
180.000	.0170
225.000	-.0800
270.000	.0720
315.000	-.0030

MACH (1) = .597 BETAT (2) = -8.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0780	.2940	-.1210	-.4920	-.1250	-.0350	-.0120	.0140	.0090	-.0110	-.0840	.0110	.4290	.3300	.1890
45.000	1.0780	.2840	-.0950	-.4120	-.1130	-.0250							.5190	.3990	.2400
90.000	1.0780	.2310	-.1000	-.4240	-.1230	-.0390	-.0170	-.0120	-.0010	.0200	.0030	.0930	.4930	.3690	.2080
135.000	1.0780	.1480	-.2070	-.4910	-.1360	-.0580							.4050	.2920	.1320
180.000	1.0780	.1210	-.2700	-.4900	-.1230	-.0340	-.0200	-.0110	.0340	.0660	-.0820	-.0470	.2950	.2160	.0870
225.000	1.0780	.1350	-.3470	-.7250	-.1490	-.0380	-.0220						.2260	.2200	.0890
270.000	1.0780	.2240	-.0310	-.9900	-.2770	-.0990	-.0490	-.0330			-.2140	.0280	.2050	.2740	.2230
315.000	1.0780	.2890	-.1380	-.5480	-.1720	-.0460	-.0100						.3000	.2610	.1760

X/LS	.9670

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMS09)

MACH (1) = .597 BETAT (2) = -6.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .98[illegible]

PHI	
.000	.0330
45.000	.0410
90.000	.0790
135.000	.0320
180.000	-.0180
225.000	-.0570
270.000	.0810
315.000	.0230

MACH (1) = .598 BETAT (3) = -4.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0800	.2690	-.1270	-.4960	-.1340	-.0450	-.0220	.0020	-.0010	-.0130	-.0680	.0430	.4450	.3550	.2030
45.000	1.0800	.2520	-.1250	-.4450	-.1360	-.0460							.4980	.3840	.2280
90.000	1.0800	.1910	-.1290	-.4620	-.1430	-.0590	-.0340	-.0300	-.0180	.0040	-.0100	.0840	.4510	.3410	.1740
135.000	1.0800	.1310	-.2270	-.5270	-.1410	-.0640							.3630	.2770	.1170
180.000	1.0800	.1140	-.2810	-.5110	-.1360	-.0470	-.0330	-.0200	.0210	.0460	-.0730	-.0230	.2650	.2140	.0870
225.000	1.0800	.1300	-.3500	-.7560	-.1730	-.0590	-.0350						.2140	.1690	.0720
270.000	1.0800	.2250	-.0250	-1.0310	-.2950	-.1250	-.0710	-.0580			-.1910	-.0390	.1690	.2110	.1980
315.000	1.0800	.2970	-.1340	-.5490	-.1810	-.0610	-.0210						.3290	.2630	.2060

X/LS .9670

PHI	
.000	.0460
45.000	.0480
90.000	.0480
135.000	-.0270
180.000	-.0260
225.000	-.0480
270.000	.0640
315.000	.0380

AMES 11-707 IA9 ORA + S3 + T9 SRN BOOSTER (RBM309)

MACH (1) = .398 BETAT (4) = -2.010

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0820	.2860	-.1240	-.4640	-.1430	-.0480	-.0280	-.0020	-.0010	-.0130	-.0560	.0680	.4580	.3730	.2280
45.000	1.0820	.2200	-.1530	-.5270	-.1480	-.0540							.4730	.3700	.2050
90.000	1.0820	.1680	-.1920	-.4960	-.1510	-.0650	-.0460	-.0410	-.0250	-.0050	-.0170	.0770	.4120	.3140	.1490
135.000	1.0820	.1200	-.2430	-.5350	-.1430	-.0650							.3240	.2500	.1160
180.000	1.0820	.1110	-.2810	-.5260	-.1440	-.0520	-.0390	-.0300	.0170	.0340	-.0700	-.0050	.2470	.2150	.0760
225.000	1.0820	.1390	-.3460	-.7560	-.1840	-.0720	-.0490						.2140	.2090	.0680
270.000	1.0820	.2430	-.0260	-1.1890	-.3120	-.1380	-.0910	-.0710			-.1800	-.0570	.1550	.1970	.1860
315.000	1.0820	.3030	-.1150	-.5240	-.1900	-.0610	-.0250						.3230	.2790	.2270

X/LS	.9670
PHI	
.000	.0810
45.000	.0810
90.000	.0560
135.000	.0050
180.000	-.0030
225.000	-.0080
270.000	.0700
315.000	.0080

MACH (1) = .398 BETAT (5) = .020

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0770	.2740	-.1280	-.4830	-.1510	-.0630	-.0340	-.0140	-.0120	-.0280	-.0730	.0740	.4810	.4010	.2430
45.000	1.0770	.1830	-.1730	-.5550	-.1570	-.0740							.4600	.3490	.1830
90.000	1.0770	.1320	-.2270	-.5290	-.1610	-.0740	-.0490	-.0460	-.0350	-.0120	-.0190	.0750	.3600	.2790	.1200
135.000	1.0770	.1020	-.2690	-.5740	-.1470	-.0710							.2620	.2230	.0900
180.000	1.0770	.1030	-.2850	-.5470	-.1580	-.0650	-.0470	-.0350	.0070	.0170	-.0750	-.0010	.2890	.2360	.0900
225.000	1.0770	.1410	-.3410	-.7730	-.1970	-.0840	-.0610						.1990	.1410	.0830
270.000	1.0770	.2450	-.0170	-1.1980	-.3180	-.1590	-.1060	-.0890			-.1630	-.0620	.2210	.2100	.1490
315.000	1.0770	.3170	-.1090	-.5150	-.1900	-.0700	-.0300						.3980	.3270	.2780

X/LS	.9670
PHI	
.000	.0930
45.000	.0340
90.000	.0320
135.000	-.0200
180.000	-.0320

AMES 11-7D7 IA9 02A + S3 + T9 SRM BOOSTER (RBM509)

MACH (1) = .598 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.9670
PHI	
225.000	-.0390
270.000	.0470
315.000	.1220

MACH (1) = .598 BETAT (6) = 2.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0780	.2620	-.1390	-.4910	-.1660	-.0700	-.0460	-.0160	-.0220	-.0320	-.0660	.0850	.5130	.4180	.2580
45.000	1.0780	.1500	-.2110	-.5420	-.1850	-.0890							.4440	.3330	.1660
90.000	1.0780	.1050	-.2610	-.5600	-.1640	-.0790	-.0570	-.0460	-.0350	-.0150	-.0290	.0780	.2960	.2390	.1000
135.000	1.0780	.0900	-.2780	-.5830	-.1510	-.0720							.2810	.2200	.0800
180.000	1.0780	.1020	-.2800	-.5550	-.1660	-.0740	-.0600	-.0330	-.0010	-.0040	-.0890	.0020	.2980	.2310	.0920
225.000	1.0780	.1500	-.3160	-.7570	-.2000	-.0930	-.0700						.2000	.1580	.0630
270.000	1.0780	.2690	-.0060	-1.1660	-.3120	-.1590	-.1180	-.0990			-.1740	-.0680	.1490	.1790	.1550
315.000	1.0780	.3370	-.0980	-.4970	-.1820	-.0640	-.0270						.4170	.3760	.3050

X/LS	.9670
PHI	
.000	.0930
45.000	.0180
90.000	.0160
135.000	-.0390
180.000	-.0430
225.000	-.0470
270.000	.0270
315.000	.1600

MACH (1) = .597 BETAT (7) = 4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0660	.2510	-.1370	-.4960	-.1750	-.0800	-.0500	-.0270	-.0330	-.0330	-.0680	.0970	.5400	.4280	.2690
45.000	1.0660	.1220	-.2350	-.5680	-.1890	-.1050							.4220	.3020	.1340
90.000	1.0660	.0780	-.2800	-.5870	-.1600	-.0810	-.0540	-.0540	-.0350	-.0170	-.0280	.0870	.2400	.2000	.0710
135.000	1.0660	.0710	-.2900	-.6060	-.1540	-.0730							.3620	.2490	.0970
180.000	1.0660	.0900	-.2840	-.5690	-.1740	-.0930	-.0600	-.0480	-.0050	-.0110	-.0780	.0220	.2990	.2370	.0930
225.000	1.0660	.1500	-.3060	-.7340	-.2030	-.0970	-.0720						.2250	.1930	.0700

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBNS09)

MACH (1) = .597 BETAT (7) = 4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.0660	.2850	.0050	-1.1600	-.3160	-.1800	-.1200	-.1060			-.1700	.0200	.2200	.2410	.1670
315.000	1.0860	.3540	-.0780	-.4730	-.1690	-.0670	-.0230						.4590	.4090	.3460

X/LS	.9670
PHI	
.000	.0900
45.000	-.0060
90.000	-.0070
135.000	-.0640
180.000	-.0820
225.000	-.0620
270.000	.0130
315.000	.1840

MACH (1) = .597 BETAT (8) = 6.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0590	.2490	-.1320	-.4970	-.1930	-.0930	-.0700	-.0360	-.0440	-.0620	-.0740	.0950	.3540	.4240	.2690
45.000	1.0590	.0900	-.2770	-.5990	-.2190	-.1220							.4020	.2600	.1020
90.000	1.0590	.0490	-.2790	-.5960	-.1660	-.0800	-.0600	-.0530	-.0370	-.0250	-.0310	.0730	.2490	.1900	.0390
135.000	1.0590	.0540	-.3120	-.6320	-.1590	.0890							.3650	.2370	.0880
180.000	1.0590	.0720	-.2990	-.5840	-.1930	-.1050	-.0760	-.0510	-.0040	-.0200	-.0690	.0180	.3020	.2230	.0790
225.000	1.0590	.1550	-.2970	-.7540	-.2110	-.1070	-.0810						.2600	.1880	.0470
270.000	1.0590	.2990	.0060	-1.1240	-.3230	-.1870	-.1490	-.1310			-.1710	.0280	.2420	.2060	.1280
315.000	1.0590	.3700	-.0510	-.4560	-.1770	-.0830	-.0250						.5070	.4290	.3750

X/LS	.9670
PHI	
.000	.0890
45.000	-.0180
90.000	-.0250
135.000	-.0650
180.000	-.0820
225.000	-.0610
270.000	-.0300
315.000	.2090

AMES 11-7ft IA9 02A + S3 + T9 SRM BOOSTER (RBMS09)

MACH (1) = .598 BETAT (9) = 8.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0440	.2270	-.1640	-.4750	-.2080	-.1080	-.0860	-.0510	-.0550	-.0750	-.0810	.0960	.5590	.4370	.2640
45.000	1.0440	.0550	-.3090	-.6240	-.2360	-.1390							.3740	.2310	.0740
90.000	1.0440	.0270	-.3100	-.6130	-.1670	-.0800	-.0590	-.0500	-.0390	-.0290	-.0340	.0720	.2750	.1860	.0310
135.000	1.0440	.0340	-.3200	-.6430	-.1640	-.0750							.2940	.2010	.0620
180.000	1.0440	.0630	-.2970	-.5880	-.2020	-.1180	-.0930	-.0510	-.0050	-.0080	-.0500	.0040	.3340	.2150	.0730
225.000	1.0440	.1540	-.2700	-.7050	-.2150	-.1160	-.0900						.2580	.0770	-.0170
270.000	1.0440	.3090	.0180	-1.0460	-.3120	-.1920	-.1650	-.1490			-.1700	-.0570	.2620	.1510	.0430
315.000	1.0440	.3830	-.0280	-.4350	-.1640	-.0620	-.0160						.5120	.4580	.4280

X/LS	.9679
PHI	
.000	.0960
45.000	-.0540
90.000	-.0610
135.000	-.0940
180.000	-.0940
225.000	-.0880
270.000	-.1130
315.000	.2640

MACH (2) = .899 BETAT (1) = -8.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2020	.4040	.1200	-1.0370	-.6270	.0090	-.0030	.0160	.0360	.0370	-.0530	-.0780	.3810	.3140	.2070
45.000	1.2020	.4140	.1510	-.9910	-.5810	.0260							.3520	.4770	.3380
90.000	1.2020	.3630	.1480	-1.0050	-.5230	.0200	.0040	-.0050	.0370	.0940	.0370	.0470	.5600	.4900	.3310
135.000	1.2020	.2630	.0460	-1.0610	-.2590	-.0080							.4320	.3850	.2280
180.000	1.2020	.2300	-.0070	-1.0930	-.2860	-.0070	-.0160	-.0290	.0810	.1570	.0370	-.0680	.2730	.2490	.1100
225.000	1.2020	.2480	-.0270	-1.1280	-.3240	-.0990	-.0040						.1590	.1060	.0330
270.000	1.2020	.3340	.3310	-.8140	-.5770	-.0920	.0140	.0020			-.1770	-.1870	.1090	.2120	.2350
315.000	1.2020	.3940	.1660	-1.0160	-.5780	-.0060	.0200						.2010	.1720	.1630

X/LS	.9679
PHI	
.000	.0960
45.000	.1440
90.000	.1780
135.000	.1210
180.000	.0810

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS09)

MACH (2) = .899 BETAT (1) = -8.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0200
270.000	.1440
315.000	.0830

MACH (2) = .907 BETAT (2) = -6.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1980	.4000	.1230	-1.0370	-.6190	.0130	.0040	.0160	.0380	.0370	-.0440	-.0210	.4270	.3790	.2540
45.000	1.1980	.3900	.1240	-1.0060	-.6030	.0250							.5490	.4840	.3350
90.000	1.1980	.3330	.1030	-1.0250	-.5110	.0150	-.0050	-.0180	.0260	.0820	.0250	.0640	.5210	.4620	.2990
135.000	1.1980	.2600	.0360	-1.0670	-.2980	-.0020							.4000	.3660	.2170
180.000	1.1980	.2430	-.0040	-1.0760	-.3120	-.0090	-.0170	-.0350	.0710	.1420	.0240	-.0470	.2930	.2660	.1270
225.000	1.1980	.2580	-.0240	-1.1250	-.3520	-.1060	-.0160						.1860	.1300	.0700
270.000	1.1980	.3490	.3340	-.8130	-.5920	-.0970	.0050	-.0100			-.1510	-.1400	.1380	.2180	.2340
315.000	1.1980	.4120	.1720	-1.0080	-.8260	-.0030	.0080						.2510	.2080	.2080

X/LS .9670

PHI	
.000	.1380
45.000	.1580
90.000	.1770
135.000	.1330
180.000	.0750
225.000	-.0080
270.000	.1470
315.000	.1220

MACH (2) = .901 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2030	.4050	.1240	-1.0330	-.6400	.0220	-.0030	.0170	.0330	.0260	-.0450	-.0010	.4590	.4150	.2980
45.000	1.2030	.3650	.1100	-1.0140	-.6630	.0280							.5350	.4790	.3270
90.000	1.2030	.3070	.0730	-1.0380	-.6880	.0180	-.0270	-.0280	.0110	.0590	.0090	.0340	.4730	.4290	.2740
135.000	1.2030	.2490	.0330	-1.0700	-.3620	.0120							.3630	.3330	.2020
180.000	1.2030	.2400	.0070	-1.0650	-.3280	-.0160	-.0440	-.0380	.0590	.1190	-.0030	-.0210	.2930	.2890	.1330
225.000	1.2030	.2870	-.0090	-1.1160	-.3980	-.1420	-.0420						.1890	.1210	.0850

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-7DT 1A9 C0A + S3 + T9 SRM BOOSTER (RBMS09)

MACH (2) = .901 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.2030	.3630	.3530	-.8030	-.6260	-.1260	-.0180	-.0260			-.1480	-.1120	.1360	.1970	.2210
315.000	1.2030	.4260	.1870	-.9990	-.8500	-.0140	.0080						.2590	.2570	.2370

X/LS	.9670
PHI	
.000	.1750
45.000	.1720
90.000	.1720
135.000	.0880
180.000	.0300
225.000	-.0140
270.000	.1350
315.000	.1520

MACH (2) = .899 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2010	.3970	.1200	-1.0320	-.6400	.0210	-.0120	-.0010	.0200	.0140	-.0550	.0230	.4680	.4420	.3170
45.000	1.2010	.3390	.0870	-1.0280	-.6910	.0230							.5040	.4590	.3040
90.000	1.2010	.2800	.0580	-1.0530	-.7290	.0230	-.0360	-.0510	-.0030	.0440	-.0070	.0630	.4130	.3860	.2390
135.000	1.2010	.2400	.0210	-1.0750	-.3640	.0280							.3240	.3070	.1760
180.000	1.2010	.2380	.0070	-1.0700	-.3570	-.0180	-.0510	-.0560	.0470	.0950	-.0220	-.0250	.2970	.2740	.1280
225.000	1.2010	.2720	-.0030	-1.1130	-.5190	-.1470	-.0550						.1970	.1250	.0530
270.000	1.2010	.3780	.3540	-.8030	-.6580	-.1450	-.0320	-.0480			-.1300	-.1260	.1420	.1980	.2130
315.000	1.2010	.4420	.1950	-.9910	-.9150	-.0220	-.0070						.2620	.2790	.2700

X/LS	.9670
PHI	
.000	.1800
45.000	.1800
90.000	.1540
135.000	.0680
180.000	.0330
225.000	-.0110
270.000	.1300
315.000	.1870

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS09)

MACH (2) = .903 BETAT (5) = 2.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1980	.3910	.1130	-1.0370	-.6370	.0130	-.0250	-.0160	.0060	-.0110	-.0740	.0490	.5460	.5080	.3870
45.000	1.1960	.2870	.0380	-1.0580	-.7400	.0040							.4590	.4180	.2800
90.000	1.1980	.2320	.0040	-1.0810	-.4690	.0350	-.0440	-.0570	-.0040	.0280	-.0280	.0910	.2880	.2810	.1690
135.000	1.1960	.2220	.0000	-1.0860	-.3790	.0380							.3410	.2990	.1580
180.000	1.1960	.2400	.0110	-1.0730	-.7310	-.0220	-.0750	-.0540	.0340	.0610	-.0520	-.0170	.3190	.2740	.1340
225.000	1.1960	.2930	.0200	-1.1020	-.5750	-.1160	-.0790						.2270	.1700	.0640
270.000	1.1960	.4100	.3740	-.8030	-.6400	-.1230	-.0680	-.0820			-.1250	-.1220	.1680	.2190	.2250
315.000	1.1960	.4720	.2230	-.9800	-.8840	-.0110	-.0080						.4080	.3630	.3580

X/LS	.9670
PHI	
.000	.2390
45.000	.1330
90.000	.1100
135.000	.0310
180.000	.0050
225.000	-.0020
270.000	.1280
315.000	.2700

MACH (2) = .901 BETAT (8) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1890	.3850	.1110	-1.0360	-.6370	-.0010	-.0370	-.0220	-.0060	-.0270	-.0850	.0710	.5980	.5340	.3830
45.000	1.1890	.2830	.0110	-1.0890	-.7520	-.0210							.4380	.3900	.2300
90.000	1.1890	.2110	-.0210	-1.0910	-.4160	.0200	-.0330	-.0490	-.0040	.0150	-.0380	.0930	.2880	.2800	.1280
135.000	1.1890	.2080	-.0150	-1.0860	-.4240	.0290							.3720	.2910	.1900
180.000	1.1890	.2370	.0090	-1.0750	-.7620	-.0310	-.0970	-.0480	.0340	.0480	-.0370	-.0010	.3500	.2930	.1310
225.000	1.1890	.2980	.0330	-1.0900	-.5950	-.1180	-.0890						.2750	.2090	.0780
270.000	1.1890	.4230	.3820	-.8050	-.6560	-.1170	-.0840	-.0910			-.1300	-.0980	.2090	.2680	.2360
315.000	1.1890	.4880	.2300	-.9690	-.8680	-.0120	-.0070						.4590	.4140	.4100

X/LS	.9670
PHI	
.000	.2370
45.000	.1150
90.000	.0820
135.000	-.0080
180.000	-.0190

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM509)

MACH (2) = .901 BETAT (6) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0140
270.000	.1000
315.000	.3040

MACH (2) = .900 BETAT (7) = 6.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1830	.3830	.1070	-1.0380	-.6190	-.0220	-.0520	-.0450	-.0270	-.0450	-.0910	.0850	.6080	.5490	.3870
45.000	1.1830	.2300	-.0130	-1.0830	-.7570	-.0360							.4050	.3660	.1880
90.000	1.1830	.1380	-.0140	-1.1000	-.4280	-.0190	-.0550	-.0630	-.0120	.0060	-.0450	.0680	.2850	.2680	.0940
135.000	1.1830	.2000	-.0310	-1.0990	-.4350	-.0020							.3480	.2740	.1150
180.000	1.1830	.2300	.0040	-1.0740	-.7530	-.0480	-.1080	-.0650	.0250	.0440	-.0530	-.0380	.3370	.2750	.0980
225.000	1.1830	.3080	.0440	-1.0810	-.6580	-.1090	-.0970						.2400	.1290	-.0160
270.000	1.1830	.4330	.3750	-.7980	-.6940	-.1250	-.1040	-.1430			-.1270	-.1200	.1990	.2050	.1320
315.000	1.1830	.5020	.2430	-.9550	-.8250	-.0040	-.0180						.4480	.4200	.4020

X/LS .9670

PHI	
.000	.2310
45.000	.0680
90.000	.0460
135.000	-.0380
180.000	-.0280
225.000	-.0280
270.000	.0120
315.000	.3170

MACH (2) = .900 BETAT (8) = 8.240

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1780	.3750	.0970	-1.0320	-.6060	-.0450	-.0650	-.0350	-.0280	-.0570	-.1050	.0750	.6330	.5930	.3950
45.000	1.1780	.2050	-.0420	-1.0910	-.7390	-.0850							.3850	.3280	.1560
90.000	1.1780	.1750	-.0430	-1.1030	-.4460	-.0470	-.0600	-.0550	-.0070	-.0090	-.0600	.0620	.3080	.2530	.0900
135.000	1.1780	.1850	-.0370	-1.1030	-.4690	-.0250							.3550	.2560	.1060
180.000	1.1780	.2260	.0100	-1.0700	-.7260	-.0630	-.1310	-.0550	.0280	.0410	-.0600	-.0480	.3280	.2050	.0710
225.000	1.1780	.3160	.0710	-1.0610	-.6820	-.0930	-.1190						.2030	.0300	-.0910

AMES 11-707 IA9 02A + S3 + T9 SRM BOOSTER (RBNS09)

MACH (2) = .900 BETAT (8) = 8.240

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.1780	.4410	.3800	-.7870	-.6550	-.1270	-.1340	-.1630			-.1400	-.0930	.1850	.1040	.0100
315.000	1.1780	.5130	.2580	-.9330	-.7790	-.0140	-.0030						.4720	.4650	.4300

X/LS	.9670
PHI	
.000	.2290
45.000	.0060
90.000	.0020
135.000	-.0620
180.000	-.0410
225.000	-.0440
270.000	-.1080
315.000	.3230

MACH (3) = 1.100 BETAT (1) = -8.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.938
PHI															
.000	1.3080	.5230	.3470	-.9940	-.3540	-.2330	.0780	.0510	.0180	.0730	.1040	-.2320	.2750	.3950	.2890
45.000	1.3080	.5380	.3740	-.5800	-.3150	-.1550							.3980	.5510	.4370
90.000	1.3080	.4730	.3380	-.5770	-.3300	-.1600	.1310	.0780	-.0220	.1590	.2020	-.0710	.3840	.5380	.4400
135.000	1.3080	.3640	.2440	-.6290	-.4300	-.0360							.2920	.4820	.3590
180.000	1.3080	.3790	.1890	-.6430	-.5050	.0000	.0980	.0240	-.0290	.2570	.2470	-.3550	.1950	.4190	.2370
225.000	1.3080	.3480	.1580	-.6960	-.3670	-.1150	.0700						.0990	.1830	.0680
270.000	1.3080	.4380	.4980	-.4210	-.3440	-.1440	.0790	.0290			-.1090	-.1850	.0840	.1190	.2440
315.000	1.3080	.5100	.3900	-.5780	-.5470	-.0060	.0790						.1030	.1170	.2100

X/LS	.9670
PHI	
.000	.2310
45.000	.3420
90.000	.3430
135.000	.2800
180.000	.2450
225.000	.1450
270.000	.2380
315.000	.1790

AMES 11-7FT IA9 O2A + S3 + T9 SRM BOOSTER (RBMS09)

MACH (3) = 1.100 BETAT (2) = -6.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3040	.5130	.3490	-.5880	-.3430	-.2040	.0550	.0450	.0200	.0290	.0890	-.1840	.3270	.4350	.3450
45.000	1.3040	.5020	.3570	-.5650	-.3350	-.1660							.4080	.5490	.4450
90.000	1.3040	.4350	.3180	-.5850	-.3560	-.1750	.1240	.0580	-.0400	.1020	.1780	-.0800	.3580	.4960	.4150
135.000	1.3040	.3480	.2470	-.6220	-.4350	-.0560							.2880	.4370	.3470
180.000	1.3040	.3180	.2050	-.6330	-.4930	-.0060	.1020	.0110	-.0470	.2190	.2220	-.3450	.2160	.4200	.2640
225.000	1.3040	.3420	.1760	-.6850	-.4440	-.1200	.0640						.1200	.1750	.0540
270.000	1.3040	.4330	.3080	-.4140	-.3600	-.1510	.0710	.0180			-.1180	-.1610	.0860	.1290	.2530
315.000	1.3040	.5110	.3960	-.5660	-.5320	-.0850	.0510						.1280	.1470	.2470

X/LS	.9670
PHI	
.000	.2890
45.000	.3280
90.000	.3430
135.000	.2880
180.000	.2360
225.000	.1480
270.000	.2380
315.000	.2210

MACH (3) = 1.103 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2990	.5020	.3510	-.5860	-.3390	-.1890	.0250	.0670	.0140	-.0020	.0700	-.1220	.3750	.4790	.3960
45.000	1.2990	.4890	.3360	-.5740	-.3570	-.1810							.4170	.5390	.4480
90.000	1.2990	.3390	.2950	-.5960	-.3850	-.1800	.1160	.0620	-.0640	.0650	.1510	-.0930	.3300	.4380	.3930
135.000	1.2990	.3310	.2450	-.6230	-.4480	-.0740							.2870	.4110	.3340
180.000	1.2990	.3240	.2100	-.6130	-.4890	-.0240	.1160	.0080	-.0710	.1850	.1870	-.2990	.2320	.4220	.2840
225.000	1.2990	.3500	.1860	-.6800	-.5430	-.1340	.0650						.1450	.1640	.0970
270.000	1.2990	.4330	.3170	-.4090	-.5140	-.1650	.0650	.0240			-.1030	-.1430	.0950	.1370	.2490
315.000	1.2990	.5030	.4030	-.5630	-.5200	-.0820	.0290						.1580	.1820	.2470

X/LS	.9670
PHI	
.000	.3180
45.000	.3580
90.000	.3360
135.000	.2920
180.000	.2240

AMES 11-707 IA9 CBA + S3 + T9 SRM BOOSTER (RBM509)

MACH (3) = 1.103 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9877

PHI	
225.000	.1440
270.000	.2210
315.000	.2970

MACH (4) = 1.103 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2920	.4870	.3490	-.5900	-.3280	-.1750	.0460	.0550	-.0020	-.0290	.0430	-.0920	.4000	.5070	.4310
45.000	1.2920	.4320	.3140	-.5880	-.3820	-.1950							.4000	.5160	.4380
90.000	1.2920	.3640	.2710	-.6130	-.4130	-.1770	.1080	.0310	-.0890	.0450	.1270	-.1010	.2960	.3830	.3000
135.000	1.2920	.3210	.2390	-.8290	-.4570	-.0690							.2980	.3880	.3180
180.000	1.2920	.3160	.2140	-.8290	-.4850	-.0470	.1130	-.0150	-.0880	.1330	.1460	-.2610	.3030	.4230	.2550
225.000	1.2920	.3420	.1940	-.6890	-.6370	-.1260	.0760						.1780	.1440	.0580
270.000	1.2920	.4190	.3220	-.4080	-.5820	-.1610	.0730	.0100			-.0910	-.1250	.1000	.1500	.2400
315.000	1.2920	.4190	.4080	-.5580	-.5130	-.0440	.0370						.1890	.2520	.2890

X/LS .9877

PHI	
0.0	3280
45.000	.3470
90.000	.3310
135.000	.2970
180.000	.2730
225.000	.1440
270.000	.2210
315.000	.2970

MACH (5) = 1.103 BETAT (5) = 2.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2920	.4870	.3490	-.5900	-.3280	-.1750	.0460	.0550	-.0020	-.0290	.0430	-.0920	.4000	.5070	.4310
45.000	1.2920	.4320	.3140	-.5880	-.3820	-.1950							.4000	.5160	.4380
90.000	1.2920	.3640	.2710	-.6130	-.4130	-.1770	.1080	.0310	-.0890	.0450	.1270	-.1010	.2960	.3830	.3000
135.000	1.2920	.3210	.2390	-.8290	-.4570	-.0690							.2980	.3880	.3180
180.000	1.2920	.3160	.2140	-.8290	-.4850	-.0470	.1130	-.0150	-.0880	.1330	.1460	-.2610	.3030	.4230	.2550
225.000	1.2920	.3420	.1940	-.6890	-.6370	-.1260	.0760						.1780	.1440	.0580
270.000	1.2920	.4190	.3220	-.4080	-.5820	-.1610	.0730	.0100			-.0910	-.1250	.1000	.1500	.2400
315.000	1.2920	.4190	.4080	-.5580	-.5130	-.0440	.0370						.1890	.2520	.2890



[illegible]

[illegible]

[illegible]

MACH (7) = 1.101 BETAT (7) = 6.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2450	.3980	.3350	-.5840	-.2780	-.1570	-.1230	.0150	-.0410	-.0400	.0410	-.0670	.5270	.5340	.4830
45.000	1.2450	.2870	.2190	-.6320	-.4240	-.2350							.3690	.4430	.3300
90.000	1.2450	.2550	.1930	-.6430	-.4820	-.1170	.0180	-.0430	-.1640	.0470	.0630	-.1130	.3390	.3440	.2410
135.000	1.2450	.2500	.2040	-.6350	-.4730	-.0890							.3590	.3590	.2410
180.000	1.2450	.2420	.2320	-.6270	-.4180	-.1520	.0400	-.1340	-.1490	.0980	.0630	-.2360	.2900	.3170	.1560
225.000	1.2450	.2480	.2640	-.6270	-.6160	-.0900	.0360						.1420	.0520	-.0550
270.000	1.2450	.3190	.5600	-.3830	-.7850	-.1230	-.0100	-.0730			-.0130	-.1840	.0610	.0730	.1210
315.000	1.2450	.4430	.4570	-.5030	-.3940	-.0590	-.0810						.3090	.2670	.3000

X/LS	.9670
PHI	
.000	.3510
45.000	.2440
90.000	.2200
135.000	.1410
180.000	.1360
225.000	.0550
270.000	.0780
315.000	.3520

MACH (3) = 1.104 BETAT (8) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2190	.3420	.3400	-.5810	-.2800	-.1520	-.1440	.0000	-.0320	-.0840	.0300	-.0620	.4090	.5080	.3130
45.000	1.2190	.2190	.1910	-.6440	-.4390	-.2510							.3510	.4000	.2910
90.000	1.2190	.2020	.1740	-.6520	-.4900	-.0880	-.0110	-.0610	-.1500	.0470	.0660	-.1490	.3510	.3360	.2120
135.000	1.2190	.1950	.1880	-.6480	-.4680	-.0840							.3500	.3580	.2100
180.000	1.2190	.1810	.2330	-.6220	-.4150	-.1830	.0190	-.1570	-.0380	.1130	.0500	-.2230	.2650	.2630	.0940
225.000	1.2190	.1830	.2850	-.6230	-.5730	-.1220	.0240						.1310	-.0250	-.0880
270.000	1.2190	.2650	.5700	-.3760	-.7480	-.1240	-.0160	-.1000			-.0290	-.2210	.0390	.0170	.0370
315.000	1.2190	.4080	.4630	-.5020	-.3340	-.0650	-.0730						.2710	.3270	.3700

X/LS	.9670
PHI	
.000	.4050
45.000	.2100
90.000	.1840
135.000	.1120
180.000	.1120

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS09)

MACH (3) = 1.104 BETAT (8) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.9670
PHI	
225.000	.0360
270.000	-.0260
315.000	.4260

MACH (4) = 1.248 BETAT (1) = -8.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3810	.5100	.4390	-.3900	-.2360	-.2240	.0110	.0850	.0450	.0230	.1270	-.1210	.2010	.3370	.2770
45.000	1.3810	.4990	.4610	-.3660	-.2030	-.0980							.3230	.4700	.4310
90.000	1.3810	.4260	.4600	-.3840	-.2220	-.1290	-.0310	.1240	.0370	.0230	.2310	.0370	.3460	.4530	.4210
135.000	1.3810	.3300	.3120	-.4320	-.3150	-.2230							.2090	.4040	.3850
180.000	1.3810	.3190	.2430	-.4550	-.3640	-.1350	.0020	.0870	-.0150	.2570	.3150	-.2050	.0700	.4510	.3510
225.000	1.3810	.3620	.2090	-.5050	-.3450	-.2160	.0280						.0830	.2530	.1220
270.000	1.3810	.4490	.6010	-.2350	-.3800	-.2260	.0440	.0710			-.2070	-.1560	.0860	.0930	.2240
315.000	1.3810	.5120	.4900	-.3720	-.3850	-.1970	.0660						.1090	.0900	.2240

X/LS	.9670
PHI	
.000	.1920
45.000	.2980
90.000	.3860
135.000	.3770
180.000	.3200
225.000	.2340
270.000	.2680
315.000	.2280

MACH (4) = 1.248 BETAT (2) = -6.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3780	.4790	.4340	-.3910	-.2410	-.2280	.0230	.0490	.0280	.0090	.1000	-.0970	.2490	.3850	.3380
45.000	1.3780	.4310	.4340	-.3750	-.2350	-.1220							.3230	.4630	.4290
90.000	1.3780	.3420	.4330	-.3950	-.2530	-.1530	-.0290	.1030	.0090	-.0110	.2050	.0230	.3710	.4230	.3930
135.000	1.3760	.2410	.2980	-.4330	-.3280	-.2100							.2180	.4290	.3730
180.000	1.3780	.2770	.2370	-.4520	-.3730	-.0890	-.0010	.0820	-.0390	.1990	.2840	-.2120	.1010	.4880	.3500
225.000	1.3760	.3330	.1950	-.5130	-.3750	-.2350	.0270						.1110	.2370	.1020

DATE 24 SEP 75 TABULATED PRESSURE DATA - 1A9A

AMES 11-7D7 1A9 02A + S3 + T9 SRM BOOSTER (RBM309)

MACH (4) = 1.248 BETAT (2) = -6.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3780	.4310	.6000	-.2340	-.4110	-.2460	.0530	.0630			-.1810	-.1290	.0800	.0680	.1990
315.000	1.3760	.4960	.4910	-.3680	-.3820	-.2260	.0480						.1110	.0880	.2100

X/LS	.9570
PHI	
.000	.2620
45.000	.3400
90.000	.3880
135.000	.3510
180.000	.3080
225.000	.2270
270.000	.2470
315.000	.2510

MACH (4) = 1.249 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3680	.4390	.4290	-.3690	-.2510	-.2330	.0200	.0310	.0160	.0000	.0680	-.0800	.2770	.3980	.3880
45.000	1.3660	.3810	.4040	-.3630	-.2510	-.1480							.3130	.4430	.4230
90.000	1.3680	.2700	.3840	-.4040	-.2790	-.1630	-.0290	.0890	-.0100	-.0440	.1770	.0170	.2880	.3770	.3880
135.000	1.3680	.1600	.2760	-.4320	-.3270	-.1930							.2380	.2980	.3680
180.000	1.3680	.2190	.2320	-.4320	-.3580	-.0980	-.0020	.0880	-.0830	.1400	.2110	-.2190	.0980	.4790	.3440
225.000	1.3680	.3080	.1930	-.3030	-.4250	-.2340	.0370						.1130	.2290	.0880
270.000	1.3680	.4180	.6020	-.2310	-.4910	-.2480	.0500	.0580			-.1070	-.1290	.0780	.0810	.1330
315.000	1.3680	.4810	.4930	-.3680	-.3780	-.2510	.0350						.1130	.1190	.2480

X/LS	.9670
PHI	
.000	.2280
45.000	.3430
90.000	.3710
135.000	.3200
180.000	.2990
225.000	.2180
270.000	.2380
315.000	.2880

AMES 11-7ft IA9 C2A + S3 + T9 SRM BOOSTER (RBMS09)

MACH (4) = 1.248 BETAT (4) = -2.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3520	.3990	.4140	-.3950	-.2500	-.2080	.0020	.0020	.0160	-.0100	.0710	-.0390	.3040	.4300	.4240
45.000	1.3520	.2990	.3730	-.3970	-.2680	-.1650							.3010	.4230	.4140
90.000	1.3520	.2120	.3480	-.4130	-.2940	-.1760	-.0280	.0740	-.0270	-.0560	.1480	-.0030	.2570	.3400	.3300
135.000	1.3520	.1200	.2850	-.4310	-.3260	-.1670							.2290	.4160	.3550
180.000	1.3520	.1720	.2620	-.4310	-.3570	-.1070	.0240	.0740	-.0880	.1130	.1570	-.2280	.1010	.4830	.3280
225.000	1.3520	.2920	.2370	-.4940	-.4740	-.2080	.0320						.1130	.2110	.0790
270.000	1.3520	.4080	.6140	-.2270	-.5670	-.2400	.0270	.0330			-.0510	-.1210	.0690	.0960	.1370
315.000	1.3520	.4770	.4940	-.3690	-.3780	-.2280	.0260						.1430	.1800	.2050

X/LS	.9670
PHI	
.000	.2740
45.000	.3850
90.000	.3790
135.000	.2890
180.000	.2850
225.000	.2010
270.000	.2240
315.000	.3150

MACH (4) = 1.249 BETAT (5) = 2.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3270	.3870	.3910	-.3990	-.2540	-.1870	-.0440	-.0330	.0050	-.0350	.0200	-.0040	.3560	.5170	.4880
45.000	1.3270	.2150	.3100	-.4180	-.3090	-.2000							.2590	.3510	.4050
90.000	1.3270	.1160	.2700	-.4320	-.3320	-.1680	-.0270	.0450	-.0500	-.0550	.0870	-.0300	.2500	.3130	.3030
135.000	1.3270	.0560	.2550	-.4350	-.3360	-.1510							.2800	.4680	.3640
180.000	1.3270	.1770	.2510	-.4420	-.3320	-.1040	-.0230	.0340	-.1200	.0640	.0750	-.1730	.1540	.3800	.2680
225.000	1.3270	.2830	.2540	-.4810	-.5380	-.1020	-.0050						.1140	.1450	.0620
270.000	1.3270	.3870	.6260	-.2180	-.5930	-.1760	-.0420	.0020			-.0030	-.1430	.0380	.0920	.1030
315.000	1.3270	.4690	.4980	-.3600	-.3540	-.1960	-.0210						.2640	.3100	.1620

X/LS	.9670
PHI	
.000	.2690
45.000	.4280
90.000	.3660
135.000	.2480
180.000	.2780

DATE 24 SEP 93 TABULATED PRESSURE DATA - IA9A

AMES 11-7DT IA9 O2A + S3 + T9 SRM BOOSTER (RBHS09)

MACH (4) = 1.249 BETAT (5) = 2.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.1800
270.000	.1810
315.000	.3200

MACH (4) = 1.249 BETAT (6) = 4.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3100	.3880	.3790	-.4020	-.2510	-.1700	-.0710	-.0440	-.0020	-.0560	-.0080	.0020	.4310	.5490	.5100
45.000	1.3100	.1770	.2740	-.4320	-.3260	-.2090							.2600	.3430	.3810
90.000	1.3100	.0720	.2740	-.4430	-.3440	-.1490	-.0380	.0200	-.0640	-.0520	.0930	-.0260	.3240	.3050	.2810
135.000	1.3100	.0240	.2320	-.4420	-.3220	-.1300							.2310	.3980	.3950
180.000	1.3100	.1710	.2410	-.4420	-.3300	-.0880	-.0590	.0090	-.1390	.0580	.0900	-.1620	.1660	.3400	.2340
225.000	1.3100	.2600	.2580	.4720	-.3070	-.0470	-.0370						.1180	.1570	.0400
270.000	1.3100	.3710	.6230	-.2190	-.6130	-.1200	-.0960	-.0070			.0010	-.1370	.0280	.0820	.0520
315.000	1.3100	.4620	.5000	-.3580	-.3350	-.1300	-.0440						.2850	.2740	.1480

X/LS .9670

PHI	
.000	.2750
45.000	.4440
90.000	.3520
135.000	.2330
180.000	.2550
225.000	.1480
270.000	.1750
315.000	.3190

MACH (4) = 1.249 BETAT (7) = 6.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2890	.3540	.3890	-.4080	-.2200	-.1620	-.1180	-.0920	-.0130	-.0530	.0290	-.0320	.4790	.5810	.5470
45.000	1.2890	.1640	.2420	-.4450	-.3450	-.2170							.2830	.3900	.3880
90.000	1.2890	.0360	.2430	-.4510	-.3470	-.1300	-.0470	-.0040	-.0860	.0100	.0870	-.0540	.3170	.3260	.2710
135.000	1.2890	.0310	.2230	-.4340	-.3240	-.1120							.2020	.3640	.2990
180.000	1.2890	.1670	.2590	-.4330	-.3190	-.0910	-.1300	-.0090	-.1560	.0990	.0850	-.1950	.1680	.3420	.2140
225.000	1.2890	.2370	.2720	-.4640	-.4970	-.0110	-.0970						.1050	.1180	-.0120

AMES 11-7X7 IA9 02A + S3 + T9 SRM BOOSTER (RBM509)

MACH (4) = 1.249 BETAT (7) = 6.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.2890	.3530	.6300	-.2130	-.5990	-.0790	-.1990	-.0110			.0000	-.1630	.0280	.0980	.0890
315.000	1.2890	.4580	.5100	-.3450	-.3050	-.0570	-.0840						.2680	.3030	.1240

X/LS	.9670
PHI	
.000	.3340
45.000	.4600
90.000	.3280
135.000	.2200
180.000	.2200
225.000	.1200
270.000	.1090
315.000	.3910

MACH (4) = 1.248 BETAT (8) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2740	.3200	.3530	-.4230	-.2150	-.1540	-.1520	-.0370	.0360	-.0370	.0020	-.0420	.4720	.5990	.5750
45.000	1.2740	.1370	.2040	-.4650	-.3660	-.2250							.2890	.3760	.3660
90.000	1.2740	.0610	.2010	-.4620	-.3590	-.1000	-.0650	-.0090	-.0840	-.0070	.0600	-.0830	.3300	.3730	.2710
135.000	1.2740	.1000	.2040	-.4510	-.3340	-.0890							.2160	.3740	.2740
180.000	1.2740	.1330	.2500	-.4420	-.3150	-.0990	-.1710	-.0310	-.1420	.0940	.0590	-.1680	.1680	.3540	.1650
225.000	1.2740	.1840	.2950	-.4630	-.4800	.0020	-.1550						.0950	.0440	-.0610
270.000	1.2740	.3030	.6330	-.2110	-.5920	-.0370	-.2720	-.0200			-.0340	-.1940	-.0030	.0540	.0420
315.000	1.2740	.4260	.5150	-.3360	-.2700	-.0120	-.1150						.2390	.3380	.0570

X/LS	.9670
PHI	
.000	.3450
45.000	.4690
90.000	.2980
135.000	.1980
180.000	.1650
225.000	.0720
270.000	.0080
315.000	.4390

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM310) (27 APR 79)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .597 BETAT (1) = -8.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0430	.3600	-.0800	-.3440	-.0940	-.0130	.0130	.0320	.0300	.0160	-.0740	-.0040	.4490	.3580	.1980
45.000	1.0430	.3390	-.0430	-.3140	-.0930	-.0030							.3500	.4270	.2780
90.000	1.0430	.2310	-.0490	-.3770	-.1330	-.0530	-.0270	-.0240	-.0130	.0190	.0180	.0960	.3010	.3780	.2180
135.000	1.0430	.1020	-.2400	-.5120	-.1670	-.0890							.3830	.2540	.1090
180.000	1.0430	.0660	-.3220	-.5120	-.1250	-.0340	-.0210	-.0160	.0370	.0640	-.0660	-.0890	.2680	.1750	.0350
225.000	1.0430	.0710	-.4280	-.7800	-.1560	-.0370	-.0220						.2210	.1980	.0780
270.000	1.0430	.1710	-.0930	-1.0470	-.3600	-.1850	-.0890	-.0500			-.2080	.0360	.2890	.3240	.2510
315.000	1.0430	.3080	-.0810	-.4480	-.1440	-.0230	.0150						.3660	.2920	.1890

X/LS	.9670
PHI	
.000	.0480
45.000	.0720
90.000	.0750
135.000	.0050
180.000	-.0370
225.000	-.1500
270.000	.0770
315.000	.0210

MACH (1) = .998 BETAT (2) = -8.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0480	.3560	-.0820	-.3780	-.1050	-.0190	.0030	.0220	.0220	.0050	-.0730	.0460	.4810	.3740	.2270
45.000	1.0480	.3060	-.0810	-.3490	-.1070	-.0280							.3420	.4190	.2800
90.000	1.0480	.1940	-.1470	-.4410	-.1470	-.0710	-.0470	-.0500	-.0360	.0000	-.0020	.0820	.4710	.3450	.1820
135.000	1.0480	.0860	-.2590	-.5390	-.1670	-.0870							.3700	.2510	.0980
180.000	1.0480	.0590	-.3300	-.5390	-.1380	-.0450	-.0290	-.0240	.0250	.0600	-.0720	-.0410	.2610	.1890	.0480
225.000	1.0480	.0640	-.4430	-.8140	-.1760	-.0580	-.0400						.2190	.2050	.0730
270.000	1.0480	.1680	-.0960	-1.0850	-.4170	-.2160	-.1170	-.0740			-.2080	.0480	.2690	.3380	.2360
315.000	1.0480	.3180	-.0700	-.4570	-.1550	-.0370	-.0040						.3890	.3130	.2200

X/LS	.9670

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS10)

MACH (1) = .599 BETAT (2) = -6.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.0620
45.000	.0640
90.000	.0650
135.000	-.0100
180.000	-.0190
225.000	-.0850
270.000	.0640
315.000	.0520

MACH (1) = .597 BETAT (3) = -4.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0470	.3540	-.0680	-.3680	-.1120	-.0240	-.0060	.0190	.0190	.0050	-.0430	.0750	.4950	.3950	.2440
45.000	1.0470	.2770	-.1000	-.3760	-.1310	-.0450							.5120	.3950	.2350
90.000	1.0470	.1590	-.1640	-.4750	-.1670	-.0810	-.0650	-.0610	-.0440	-.0080	-.0090	.0660	.4950	.3160	.1500
135.000	1.0470	.0740	-.2700	-.5590	-.1670	-.0820							.3340	.2410	.0920
180.000	1.0470	.0570	-.3220	-.5420	-.1420	-.0470	-.0360	-.0270	.0190	.0510	-.0520	-.0180	.2280	.1760	.0540
225.000	1.0470	.0600	-.4380	-.8550	-.1880	-.0670	-.0610						.2310	.1690	.0870
270.000	1.0470	.1820	-.0890	-1.1370	-.4360	-.2400	-.1510	-.0980			-.1550	.0230	.2410	.2690	.2320
315.000	1.0470	.3360	-.0510	-.4600	-.1630	-.0450	-.0070						.3640	.3260	.2350

X/LS .9670

PHI	
.000	.0620
45.000	.0600
90.000	.0780
135.000	-.0360
180.000	-.0420
225.000	-.0890
270.000	.0640
315.000	.0690

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7DT IA9 OEA + S3 + T9 SRM BOOSTER (RE=410)

MACH (1) = .597 BETAT (4) = -2.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8249	.8817	.9044	.9360
PHI															
.000	1.0450	.3400	-.0770	-.3950	-.1200	-.0400	-.0160	.0090	.0070	-.0080	-.0510	.0840	.9030	.6080	.2320
45.000	1.0450	.2350	-.1280	-.4350	-.1560	-.0660							.6930	.3910	.2110
90.000	1.0450	.1230	-.2200	-.5170	-.1790	-.0940	-.0720	-.0720	-.0390	-.0240	-.0240	.0590	.5980	.2830	.1270
135.000	1.0450	.0600	-.2810	-.5870	-.1630	-.0830							.2740	.2110	.0870
180.000	1.0450	.0510	-.3290	-.5590	-.1450	-.0540	-.0420	-.0270	.0120	.0430	-.0400	-.0040	.2330	.1820	.0480
225.000	1.0450	.0570	-.4340	-.8590	-.2040	-.0860	-.0750						.2790	.1880	.0420
270.000	1.0450	.1830	-.0860	-1.2110	-.4470	-.2610	-.1740	-.1270			-.1570	-.0300	.1950	.2590	.1920
315.000	1.0450	.3520	-.0440	-.4580	-.1680	-.0520	-.0110						.4130	.3220	.2830

X/LS	.9670
PHI	
.000	.0850
45.000	.0840
90.000	.0780
135.000	-.0090
180.000	-.0400
225.000	-.0900
270.000	.0750
315.000	.1010

MACH (1) = .598 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8249	.8817	.9044	.9360
PHI															
.000	1.0430	.3370	-.0770	-.4200	-.1390	-.0510	-.0250	-.0040	-.0040	-.0160	-.0590	.0880	.9190	.4190	.2850
45.000	1.0430	.2000	-.1880	-.5240	-.1750	-.0880							.4870	.3400	.1810
90.000	1.0430	.0900	-.2470	-.5540	-.1860	-.1010	-.0800	-.0790	-.0610	-.0280	-.0200	.0380	.3520	.2430	.0860
135.000	1.0430	.0520	-.2970	-.6080	-.1620	-.0770							.2380	.1870	.0540
180.000	1.0430	.0440	-.3280	-.5780	-.1580	-.0580	-.0450	-.0320	.0110	.0260	-.0440	.0060	.3590	.2240	.0790
225.000	1.0430	.0630	-.4240	-.8840	-.2100	-.0960	-.0840						.2910	.1670	.0820
270.000	1.0430	.1980	-.0740	-1.2020	-.4540	-.2810	-.1940	-.1480			-.1520	-.0280	.1650	.2270	.1950
315.000	1.0430	.3650	-.0260	-.4480	-.1680	-.0520	-.0160						.4050	.3880	.2680

X/LS	.9670
PHI	
.000	.0940
45.000	.0490
90.000	.0480
135.000	-.0390
180.000	-.0800

AMES 11-7X7 IA9 C2A + S3 + T9 SRM BOOSTER (RUN310)

MACH (1) = .598 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0800
270.000	.0360
315.000	.1310

MACH (1) = .598 BETAT (6) = 2.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9356
PHI															
.000	1.0410	.3200	-.0860	-.4290	-.1480	-.0550	-.0400	-.0100	-.0190	-.0320	-.0640	.0950	.5410	.4290	.2760
45.000	1.0410	.1640	-.2050	-.5190	-.1970	-.1100							.4430	.3080	.1560
90.000	1.0410	.0720	-.2730	-.5710	-.1890	-.1020	-.0780	-.0690	-.0600	-.0240	-.0170	.0690	.3090	.2110	.0820
135.000	1.0410	.0470	-.2990	-.6050	-.1610	-.0690							.2530	.1780	.0500
180.000	1.0410	.0440	-.3250	-.5790	-.1580	-.0670	-.0480	-.0320	.0070	.0080	-.0610	.0060	.3850	.2410	.0910
225.000	1.0410	.0620	-.4090	-.8650	-.2160	-.1020	-.0910						.2490	.1890	.0820
270.000	1.0410	.2100	-.0630	-1.1760	-.4540	-.2970	-.2100	-.1500			-.1230	-.0130	.1830	.2330	.1720
315.000	1.0410	.3820	-.0030	-.4320	-.1590	-.0510	-.0070						.4430	.3810	.3120

X/LS .9670

PHI	
.000	.1060
45.000	.0120
90.000	.0120
135.000	-.0640
180.000	-.0680
225.000	-.0650
270.000	.0400
315.000	.1630

MACH (1) = .597 BETAT (7) = 4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0290	.3100	-.0820	-.4300	-.1540	-.0760	-.0470	-.0230	-.0310	-.0310	-.0710	.1000	.5580	.4370	.2730
45.000	1.0290	.1310	-.2260	-.5420	-.2160	-.1280							.4140	.2760	.1180
90.000	1.0290	.0430	-.2990	-.5940	-.1840	-.1030	-.0790	-.0750	-.0550	-.0230	-.0170	.0770	.2420	.1880	.0320
135.000	1.0290	.0300	-.3160	-.6160	-.1520	-.0720							.3520	.1860	.0230
180.000	1.0290	.0370	-.3280	-.5890	-.1690	-.0780	-.0550	-.0400	-.0020	.0040	-.0620	.0140	.3720	.2320	.0780
225.000	1.0290	.0650	-.3950	-.8350	-.2220	-.1110	-.0910						.2640	.2280	.0730

AMES 11-707 IA9 C2A + S3 + T9 SRM BOOSTER (RBM510)

MACH (1) = .597 BETAT (7) = 4.--

SECTION (11)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.0290	.2300	-.0320	-1.1470	-.4500	-.2950	-.2100	-.1610			-.1600	.0190	.2930	.2910	.1950
315.000	1.0290	.3990	.0000	-.4210	-.1610	-.0460	-.0100						.5190	.4520	.3490

X/LS	.9670
PHI	
.000	.1020
45.000	-.0190
90.000	-.0190
135.000	-.0820
180.000	-.0850
225.000	-.0820
270.000	.0360
315.000	.1900

MACH (1) = .598 BETAT (8) = 6.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0230	.3030	-.1080	-.4120	-.1830	-.0980	-.0690	-.0400	-.0470	-.0680	-.0770	.1020	.3610	.4280	.2700
45.000	1.0230	.0830	-.2730	-.5830	-.2460	-.1560							.3900	.2340	.0750
90.000	1.0230	.0130	-.3280	-.6250	-.1930	-.1060	-.0880	-.0750	-.0550	-.0290	-.0200	.0700	.2440	.1780	.0100
135.000	1.0230	.0180	-.3350	-.6290	-.1530	-.0730							.3970	.2330	.0800
180.000	1.0230	.0230	-.3310	-.8110	-.1880	-.0930	-.0690	-.0440	-.0080	.0000	-.0540	.0120	.2910	.1840	.0400
225.000	1.0230	.0350	-.3940	-.8510	-.2300	-.1200	-.1160						.3070	.2120	.0820
270.000	1.0230	.2410	-.0330	-1.1280	-.4800	-.3270	-.2390	-.1780			-.1550	.0410	.2920	.2580	.1510
315.000	1.0230	.4170	.0270	-.4010	-.1560	-.0490	-.0070						.5930	.4540	.3830

X/LS	.9670
PHI	
.000	.0970
45.000	-.0230
90.000	-.0310
135.000	-.1050
180.000	-.1
225.000	-.07
270.000	-.0130
315.000	.2180

AMES 11-FOOT IA9 CCA + S3 + T9 SRM BOOSTER (RBMS10)

MACH (1) = .936 BETAT (9) = 8.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0957	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9386	.9670
PHI															
.000	1.0106	.2815	-.1165	-.6195	-.2010	-.1120	-.0877	-.0755	-.0684	-.0826	-.0823	.1525	.5545	.4241	.2594
45.000	1.0106	.0469	-.3170	-.6275	-.2725	-.1825							.3677	.2053	.1398
90.000	1.0106	-.0109	-.3475	-.6375	-.1915	-.1075	-.0877	-.0780	-.0625	-.0341	-.0275	.0393	.2841	.1599	-.0149
135.000	1.0106	.0043	-.3709	-.6345	-.1575	-.0725							.2999	.2259	.0875
180.000	1.0106	.0140	-.3241	-.6765	-.2025	-.1031	-.0799	-.0541	-.0396	.0011	-.0530	-.0940	.2393	.1811	.0725
225.000	1.0106	.0706	-.3815	-.6765	-.2325	-.1325	-.1025						.3211	.2411	.1075
270.000	1.0106	.2585	-.3465	-.5125	-.4845	-.3445	-.2795	-.2445			-.1495	-.1585	.3293	.1895	.0845
315.000	1.0106	.4395	.0585	-.3925	-.1915	-.0415	-.0245						.3599	.4275	.4145

X/LS	.9670
PHI	
.000	.0880
45.000	-.0840
90.000	-.0840
135.000	-.0710
180.000	-.0970
225.000	-.0960
270.000	-.0980
315.000	.2490

MACH (2) = .901 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9386	.9670
PHI															
.000	1.1730	.4610	.1830	-1.0175	-.4235	.0160	.0290	.4610	.1807	.4610	.1190	.1609	.4466	.3196	.2896
45.000	1.1730	.4410	.1740	-.9825	-.4675	.0290							.3685	.2	.1
90.000	1.1730	.3260	.1030	-1.0195	-.2825	.0110	-.0110	-.0725	.1190	.1609	.1466	.0290	.3685	.2490	.1290
135.000	1.1730	.1990	-.0080	-1.0465	-.2415	-.0795							.2486	.1	.0
180.000	1.1730	.1770	-.0810	-1.0495	-.3675	-.1	.0225	.0	.0	.1190	.1025	.1466	.2146	.2	.0
225.000	1.1730	.1060	-.1230	-.5815	-.5465	-.1685	-.0						.2	.0	.0
270.000	1.1730	.2850	.2870	-.2925	-.5510	-.3160	-.0	.0290			.1190	.1466	.1	.1225	.0
315.000	1.1730	.4180	.2170	-.2790	-.4490	-.1	-.0						.1	.0	.0

X/LS	.9670
PHI	
.000	.1490
45.000	.2130
90.000	.2130
135.000	.1090
180.000	.0

AMES 11-FT TAS CBA + SS + 79 SRM BOOSTER (BPM1)

MACH (2) = .971 BETAT (1) = -0.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9877

PHI	
229.7000	-.0437
2[illegible].0001	.1710
3[illegible].7[illegible]	.1[illegible]

MACH (2) = .971 BETAT (2) = -0.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1130	.1422	.1991	.2844	.3697	.4833	.5973	.7110	.8248	.8817	.9044	.9360
PHI															
.0000	1.1760	.4810	.3890	-1.0130	-.5330	.0130	.0170	.0340	.0500	.0920	-.0270	-.0960	.4840	.4180	.2980
45.0000	1.1760	.4100	.1470	-.9970	-.5730	.0160							.5970	.5040	.3550
90.0000	1.1760	.2930	.0930	-1.0330	-.5770	-.0230	-.0380	-.0670	-.0940	.0860	.0450	.0250	.5000	.4220	.2850
135.0000	1.1760	.1310	-.0240	-1.0990	-.5830	-.0490							.4520	.2930	.1590
180.0000	1.1760	.1750	-.0540	-1.0780	-.6150	-.0380	-.0390	-.0410	.0740	.1480	.0440	-.0760	.2460	.2230	.0980
225.0000	1.1760	.1480	-.1190	-.5970	-.5850	-.1990	.0040						.2320	.1450	.0090
270.0000	1.1760	.2950	.2740	-.8170	-.5840	-.1760	.0110	-.0240			-.1280	-.1560	.1810	.2120	.2410
315.0000	1.1760	.4580	.2290	-.9690	-.6430	-.0110	.0290						.2080	.2350	.2210

X/LS .9877

PHI	
.0000	.3680
45.0000	.1990
90.0000	.1990
135.0000	.0840
180.0000	.0190
225.0000	-.0690
270.0000	.1390
315.0000	.1380

MACH (2) = .971 BETAT (3) = -8.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1130	.1422	.1991	.2844	.3697	.4833	.5973	.7110	.8248	.8817	.9044	.9360
PHI															
.0000	1.1770	.4830	.1980	-1.0170	-.5490	.0130	.0170	.0230	.0410	.0990	-.0270	.0320	.5130	.4850	.3510
45.0000	1.1770	.3830	.1490	-1.0120	-.6110	.0040							.5010	.4000	.3340
90.0000	1.1770	.2870	.1500	-1.0900	-.6360	-.0270	-.0490	-.0730	-.0280	.0660	.0490	.0290	.4570	.3910	.2710
135.0000	1.1770	.1830	-.0180	-1.0930	-.6090	.0000							.3990	.2980	.1610
180.0000	1.1770	.1780	-.0660	-1.0780	-.6590	-.0480	-.0990	-.0980	.0810	.1310	.0280	-.0960	.2770	.2410	.0910
225.0000	1.1770	.1870	-.1180	-.6170	-.6120	-.1930	-.0190						.2240	.1560	.0070

[illegible]

[illegible]

[illegible]

[illegible]														
[illegible]														
[illegible]														

[illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible]

[illegible]														
[illegible]														
[illegible]	1.1720	.4600	.1570	-1.0190	-.5540	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1.1720	.3560	.1110	-1.0270	-.6510	[illegible]								
[illegible]	1.1720	.2400	.0410	-1.0690	-.7270	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135.000	1.1720	.1620	-.0210	-1.0960	-.8130	[illegible]								
180.000	1.1720	.1010	-.0420	-1.0950	-.8650	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
225.000	1.1720	.1030	-.1050	-.6840	-.6350	[illegible]	[illegible]							
270.000	1.1720	.3250	.2900	-.8370	-.6640	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
315.000	1.1720	.4730	.2540	-.9510	-.8370	[illegible]	[illegible]							

X/LS .9670

PHI	
.000	.2140
45.000	.1930
90.000	.1620
135.000	.0840
180.000	-.0040
225.000	-.0120
270.000	.1440
315.000	[illegible]

MACH (2) = .902 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1750	.4520	.1560	-1.0030	-.5500	-.0050	-.0300	-.0030	-.0010	-.0220	-.0790	.0460	.6080	.5340	.4010
45.000	1.1750	.2920	.0440	-1.0320	-.6980	-.0400							.4990	.4070	.2530
90.000	1.1750	.1970	.0220	-1.0860	-.7100	-.0150	-.0800	-.0850	-.0400	.0140	-.0220	.0510	.2860	.2640	.1320
135.000	1.1750	.1760	-.0280	-1.0950	-.4240	.0150							.3120	.2320	.0950
180.000	1.1750	.1860	-.0270	-1.0870	-.3960	-.0420	-.0670	-.0510	.0400	.0700	-.0360	-.0320	.3540	.2670	.1200
225.000	1.1750	.2110	-.0770	-1.1210	-.6480	-.1860	-.0680						.2480	.1660	.0730
270.000	1.1750	.3590	.3160	-.8330	-.7340	-.2260	-.1160	-.1240			-.1180	-.0700	.1760	.2260	.2290
315.000	1.1750	.5110	.2780	-.9220	-.8000	-.0130	.0090						.4570	.4090	.3780

X/LS	.9670
PHI	
.000	.2630
45.000	.1340
90.000	.1030
135.000	-.0010
180.000	-.0480
225.000	-.0340
270.000	.1150
315.000	.2830

MACH (2) = .901 BETAT (6) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1690	.4480	.1500	-1.0070	-.5390	-.0230	-.0450	-.0310	-.0150	-.0430	-.0950	.0640	.6330	.5450	.4010
45.000	1.1690	.2870	.0100	-1.0660	-.7160	-.0660							.4720	.3890	.2140
90.000	1.1690	.1780	-.0420	-1.0970	-.4740	-.0230	-.0820	-.0860	-.0330	.0080	-.0380	.0490	.2720	.2240	.0980
135.000	1.1690	.1720	-.0360	-1.1010	-.4240	-.0110							.3880	.2840	.1080
180.000	1.1690	.1830	-.0280	-1.0880	-.4500	-.0510	-.0710	-.0560	.0310	.0530	-.0440	-.0270	.3420	.2690	.1080
225.000	1.1690	.2200	-.0560	-1.1350	-.6850	-.1770	-.0790						.2640	.2000	.0750
270.000	1.1690	.3740	.3260	-.8310	-.7800	-.2400	-.1370	-.1480			-.1240	-.0730	.2050	.2480	.2130
315.000	1.1690	.5260	.2850	-.9140	-.7840	-.0160	.0010						.4920	.4470	.4170

X/LS	.9670
PHI	
.000	.2480
45.000	.1050
90.000	.0880
135.000	-.0320
180.000	-.0320

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7X7 IA9 (2A + S3 + T9 SRM BOOSTER (RBNS10)

MACH (2) = .903 BETAT (3) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.1770	.3120	.2840	-.8290	-.6320	-.1960	-.0240	-.0350			-.1140	-.1340	.1530	.2190	.2330
315.000	1.1770	.4540	.2390	-.9600	-.8510	-.0170	.0150						.3090	.2790	.2600

X/LS	.9670
PHI	
.000	.1980
45.000	.1970
90.000	.1870
135.000	.0790
180.000	.0180
225.000	-.0400
270.000	.1540
315.000	.1740

MACH (2) = .902 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1720	.4600	.1670	-1.0130	-.5540	.0110	-.0040	.0120	.0310	.0210	-.0430	.0400	.5380	.4920	.3570
45.000	1.1720	.3560	.1110	-1.0270	-.6510	-.0080							.5350	.4680	.3150
90.000	1.1720	.2400	.0410	-1.0650	-.7270	-.0260	-.0630	-.0830	-.0290	.0310	.0100	.0380	.4120	.3520	.1990
135.000	1.1720	.1820	-.0210	-1.0980	-.4130	-.0030							.2780	.2420	.1210
180.000	1.1720	.1810	-.0420	-1.0850	-.4650	-.0320	-.0480	-.0560	.0580	.1120	.0100	-.0480	.3460	.2710	.1230
225.000	1.1720	.1930	-.1050	-.5840	-.6310	-.1880	-.0430						.2550	.1900	.0730
270.000	1.1720	.3250	.2900	-.8370	-.6640	-.2090	-.0610	-.0670			-.1160	-.1140	.1660	.2240	.2350
315.000	1.1720	.4730	.2540	-.9510	-.8370	-.0150	.0080						.3450	.3220	.2990

X/LS	.9670
PHI	
.000	.2140
45.000	.1930
90.000	.1620
135.000	.0640
180.000	-.0040
225.000	-.0120
270.000	.1440
315.000	.2110

AMES 11-707 IA9 OEA + 33 + 19 SRM BOOSTER (RBNS10)

MACH (2) = .901 BETAT (6) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0330
270.000	.0870
315.000	.3080

MACH (2) = .901 BETAT (7) = 6.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1560	.4400	.1390	-1.0060	-.5280	-.0490	-.0580	-.0360	-.0270	-.0640	-.1040	.0770	.6450	.5510	.4030
45.000	1.1560	.2310	-.0930	-1.0810	-.7310	-.1100							.4410	.3330	.1720
90.000	1.1560	.1530	-.0590	-1.1070	-.4540	-.0270	-.0760	-.0770	-.0260	-.0010	-.0460	.0400	.2830	.2290	.0630
135.000	1.1560	.1640	-.0460	-1.0950	-.4310	-.0240							.3710	.2700	.1090
180.000	1.1560	.1790	-.0280	-1.0870	-.5380	-.0540	-.0840	-.0560	.0310	.0470	-.0400	-.0370	.3400	.2530	.0990
225.000	1.1560	.2230	-.0450	-1.1280	-.6980	-.1410	-.0950						.2600	.1380	.0120
270.000	1.1560	.3820	.3220	-.8270	-.8090	-.2550	-.1690	-.1810			-.1210	-.0510	.2190	.2050	.1280
315.000	1.1560	.5440	.3010	-.8920	-.7410	-.0170	.0050						.5220	.4700	.4350

X/LS .9670

PHI	
.000	.2450
45.000	.0360
90.000	.0220
135.000	-.0640
180.000	-.0320
225.000	-.0330
270.000	.0030
315.000	.3300

MACH (2) = .900 BETAT (8) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1470	.4280	.1280	-1.0050	-.5260	-.0800	-.0700	-.0560	-.0400	-.0830	-.1030	.0840	.6320	.5550	.3930
45.000	1.1470	.1980	-.0580	-1.1040	-.6990	-.1500							.4140	.2980	.1160
90.000	1.1470	.1360	-.0620	-1.1210	-.4610	-.0560	-.0720	-.0850	-.0350	-.0070	-.0430	.0450	.2740	.2100	.0380
135.000	1.1470	.1540	-.0600	-1.1010	-.4360	-.0170							.3420	.2440	.0900
180.000	1.1470	.1730	-.0310	-1.0940	-.7610	-.0660	-.0900	-.0600	.0370	.0470	-.0470	-.0820	.3080	.2040	.0580
225.000	1.1470	.2330	-.0290	-1.1190	-.5920	-.1510	-.1010						.2080	.0590	-.0580

MACH (2) = .900 BETAT (8) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.1470	.4010	.3200	-.8220	-.5780	-.2850	-.1950	-.2190			-.1200	-.0930	.2190	.1030	.0120
315.000	1.1470	.5620	.3170	-.8750	-.6980	-.0150	.0100						.5340	.4780	.4330

X/LS	.9670
PHI	
.000	.2380
45.000	.0180
90.000	-.0180
135.000	-.0850
180.000	-.0490
225.000	-.0480
270.000	-.1150
315.000	.3410

MACH (3) = 1.109 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2900	.3820	.3620	-.5780	-.2980	-.1700	.0630	.0770	.0250	.0910	.1390	-.1940	.3720	.4570	.3420
45.000	1.2900	.5610	.3690	-.5490	-.2910	-.1420							.4790	.5920	.4890
90.000	1.2900	.4450	.3060	-.5860	-.3450	-.1970	.0710	.0650	-.0230	.1580	.2240	-.0580	.3900	.5060	.4080
135.000	1.2900	.3060	.1880	-.6460	-.4730	-.0810							.2580	.3540	.2780
180.000	1.2900	.2810	.1300	-.6640	-.5190	-.0330	.0860	.0300	-.0050	.2460	.2310	-.3290	.1980	.3290	.1950
225.000	1.2900	.2910	.0580	-.7350	-.3310	-.1810	.0550						.1580	.1720	.0830
270.000	1.2900	.3940	.4440	-.4460	-.3620	-.1830	.0630	.0680			-.0330	-.1700	.1060	.1570	.2670
315.000	1.2900	.5320	.4310	-.5460	-.4870	-.0410	.0690						.1510	.1740	.2340

X/LS	.9670
PHI	
.000	.2780
45.000	.3390
90.000	.3680
135.000	.2580
180.000	.1880
225.000	.1020
270.000	.2410
315.000	.2080

AMES 11-707 IA9 ORA + S3 + T9 SRM BOOSTER (RBMS1D)

MACH (3) = 1.103 BETAT (2) = -6.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2890	.5690	.3840	-.5740	-.2890	-.1330	.0440	.0670	.0300	.0400	.1210	-.1280	.4120	.5010	.3890
45.000	1.2890	.5240	.3680	-.5630	-.3130	-.1570							.4860	.5870	.4660
90.000	1.2890	.4050	.2860	-.5980	-.3730	-.2060	.0580	.0430	-.0550	.0910	.1990	-.0750	.3620	.4600	.3780
135.000	1.2890	.2890	.1930	-.6480	-.4760	-.0610							.2640	.3370	.2620
180.000	1.2890	.2720	.1490	-.6530	-.5340	-.0360	.0870	.0260	-.0360	.2040	.2170	-.3210	.2380	.3430	.2080
225.000	1.2890	.2870	.0730	-.7300	-.3650	-.1980	.0550						.1730	.1720	.0830
270.000	1.2890	.3950	.4510	-.4410	-.3800	-.1970	.0530	.0550			-.0500	-.1530	.1090	.1700	.2870
315.000	1.2890	.5360	.4390	-.5420	-.4780	-.0390	.0440						.1770	.2150	.2610

X/LS	.9670
PHI	
.000	.3180
45.000	.3370
90.000	.3630
135.000	.2420
180.000	.1710
225.000	.1080
270.000	.2370
315.000	.2430

MACH (3) = 1.102 BETAT (3) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2840	.5550	.3830	-.5720	-.2780	-.1120	.0160	.0860	.0290	.0040	.1020	-.0860	.4520	.5310	.4310
45.000	1.2840	.4880	.3440	-.5720	-.3350	-.1790							.4760	.5710	.4540
90.000	1.2840	.3650	.2640	-.6090	-.4020	-.2230	.0630	.0460	-.0780	.0490	.1750	-.0860	.3240	.4000	.3440
135.000	1.2840	.2820	.1910	-.6460	-.4640	-.0780							.2750	.3280	.2500
180.000	1.2840	.2780	.1590	-.6350	-.5350	-.0600	.0890	.0190	-.0590	.1760	.2020	-.2810	.2990	.3690	.2170
225.000	1.2840	.2900	.0830	-.7250	-.4030	-.1990	.0560						.2040	.1640	.0700
270.000	1.2840	.4020	.4600	-.4340	-.3950	-.2160	.0440	.0490			-.0800	-.1400	.1050	.1780	.2560
315.000	1.2840	.5410	.4450	-.5330	-.4640	-.0450	.0110						.2040	.2510	.2770

X/LS	.9670
PHI	
.000	.3490
45.000	.3510
90.000	.3520
135.000	.2310
180.000	.1510

MACH (3) = 1.102 BETAT (3) = -4.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.1130
270.000	.2220
315.000	.2780

MACH (3) = 1.102 BETAT (4) = -2.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4833	.5973	.7110	.8248	.8817	.9044	.9586
PHI															
.000	1.2780	.5390	.3780	-.5750	-.2670	-.1060	.0150	.0740	.0160	-.0250	.0620	-.0600	.4640	.5540	.4580
45.000	1.2780	.4480	.3190	-.5840	-.3570	-.1980							.4430	.5420	.4330
90.000	1.2780	.3310	.2380	-.6190	-.4320	-.2210	.0780	.0290	-.1040	.0200	.1440	-.0870	.2940	.3420	.3000
135.000	1.2780	.2710	.1900	-.6450	-.4940	-.0740							.2920	.3160	.2310
180.000	1.2780	.2680	.1590	-.6350	-.5330	-.0650	.0990	.0050	-.0730	.1480	.1710	-.2570	.3560	.3840	.2220
225.000	1.2780	.2840	.0900	-.7220	-.4200	-.2020	.0590						.2150	.1550	.0680
270.000	1.2780	.3930	.4840	-.4310	-.4250	-.2380	.0240	.0900			-.0670	-.1180	.1100	.1870	.2510
315.000	1.2780	.5410	.4530	-.5250	-.4550	-.0570	-.0140						.2440	.2990	.3300

X/LS .9670

PHI	
.000	.3350
45.000	.3680
90.000	.3350
135.000	.2320
180.000	.1370
225.000	.1290
270.000	.1980
315.000	.3090

MACH (3) = 1.102 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9586
PHI															
.000	1.2570	.9070	.3780	-.5650	-.2230	-.1060	-.0670	.0330	-.0060	-.0640	.0520	-.0270	.3780	.8040	.9070
45.000	1.2570	.3590	.2710	-.6040	-.3730	-.2070							.3920	.4930	.3720
90.000	1.2570	.2690	.2070	-.6320	-.4390	-.2090	.0330	-.0090	-.1300	.0100	.1090	-.0920	.2830	.2990	.2290
135.000	1.2570	.2420	.1940	-.6410	-.4820	-.0840							.4220	.3430	.2340
180.000	1.2570	.2410	.1790	-.6370	-.5000	-.0820	.0960	-.0450	-.0780	.0970	.1100	-.2470	.3180	.3180	.1770
225.000	1.2570	.2330	.1140	-.7080	-.3700	-.1760	.0730						.2180	.1490	.0830

AMES 11-707 IA9 O2A + S3 + T9 SRM BOOSTER (RBNS10)

MACH (3) = 1.102 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.2570	.3420	.4760	-.4190	-.8060	-.3580	.0160	-.0270			-.0280	-.1200	.0980	.1850	.2240
315.000	1.2570	.5220	.4780	-.4890	-.3950	-.0350	-.0310						.3560	.3420	.3310

X/LS .9870

PHI	
.000	.3700
45.000	.3490
90.000	.2820
135.000	.1530
180.000	.1390
225.000	.0830
270.000	.1810
315.000	.3600

MACH (3) = 1.102 BETAT (6) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2430	.4580	.3720	-.5630	-.2130	-.1240	-.1090	.0250	-.0270	-.0910	.0500	-.0300	.5580	.5700	.5010
45.000	1.2430	.3410	.2430	-.6170	-.3860	-.2390							.3930	.4500	.3410
90.000	1.2430	.2470	.1850	-.6420	-.4790	-.2060	.0210	-.0210	-.1480	.0140	.0850	-.1090	.2870	.2910	.2150
135.000	1.2430	.2290	.1880	-.6440	-.4920	-.0820							.3910	.3840	.2590
180.000	1.2430	.2160	.1840	-.6380	-.4740	-.0970	.0790	-.0710	-.1000	.0870	.0970	-.2440	.2800	.3020	.1580
225.000	1.2430	.2110	.1440	-.6960	-.7230	-.1350	.0460						.2230	.1460	.0440
270.000	1.2430	.3090	.4920	-.4110	-.7980	-.4570	-.0030	-.0450			-.0010	-.1440	.0920	.1330	.2000
315.000	1.2430	.5010	.4930	-.4690	-.3610	-.0340	-.0480						.3740	.3220	.3290

X/LS .9870

PHI	
.000	.3890
45.000	.2760
90.000	.2400
135.000	.1330
180.000	.1310
225.000	.0660
270.000	.1620
315.000	.3690

AMES 11-7X7 IA9 ORA + S3 + T9 SRM BOOSTER (RBMS1D)

MACH (3) = 1.100 BETAT (7) = 6.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2230	.4340	.3670	-.5580	-.2100	-.1450	-.1380	.0100	-.0550	-.0840	.0410	-.0370	.5290	.5880	.5140
45.000	1.2230	.2760	.2060	-.6330	-.4000	-.2740							.3570	.4090	.2980
90.000	1.2230	.2040	.1610	-.6520	-.4950	-.1690	-.0010	-.0520	-.1720	.0340	.0650	-.0920	.3160	.2940	.1860
135.000	1.2230	.1900	.1750	-.6440	-.4970	-.0780							.3610	.3690	.2520
180.000	1.2230	.1600	.1840	-.6380	-.4710	-.1090	.0390	-.0950	-.1150	.0990	.0810	-.2350	.2880	.3000	.1450
225.000	1.2230	.1430	.1580	-.6810	-.6990	-.1100	.0180						.1930	.0570	-.0490
270.000	1.2230	.2500	.4960	-.4120	-.7640	-.4890	-.0210	-.0710			.0040	-.1720	.0990	.0590	.1280
315.000	1.2230	.4760	.5100	-.4490	-.3090	-.0460	-.0560						.3280	.3030	.3810

X/LS	.9670
PHI	
.000	.4140
45.000	.2750
90.000	.2050
135.000	.1920
180.000	.1410
225.000	.0500
270.000	.0880
315.000	.3970

MACH (3) = 1.106 BETAT (8) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2080	.4350	.3800	-.5500	-.1990	-.1680	-.1550	-.0120	-.0460	-.0880	.0120	-.0310	.5310	.6090	.5330
45.000	1.2080	.2380	.1700	-.6530	-.4090	-.3150							.3340	.3700	.2850
90.000	1.2080	.1810	.1440	-.6840	-.5080	-.1430	-.0400	-.1140	-.1480	.0170	.0450	-.1060	.3180	.2900	.1890
135.000	1.2080	.1790	.1680	-.6370	-.4930	-.0640							.3640	.3760	.2480
180.000	1.2080	.1380	.1900	-.6350	-.4650	-.1310	.0250	-.1310	-.0290	.1010	.0450	-.2370	.2620	.2340	.0940
225.000	1.2080	.1230	.1800	-.6720	-.6750	-.1180	-.0130						.1380	.0150	-.0480
270.000	1.2080	.2520	.5000	-.4060	-.7490	-.5450	-.0520	-.1070			-.0180	-.1830	.0830	.0240	.0620
315.000	1.2080	.4910	.5120	-.4490	-.2700	-.0690	-.0610						.3270	.3290	.3980

X/LS	.9670
PHI	
.000	.4240
45.000	.2210
90.000	.1870
135.000	.0800
180.000	.1390

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7ft IA9 O2A + S3 + T9 SRM BOOSTER (RBMS10)

MACH (3) = 1.106 BETAT (8) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.0300
270.000	-.0260
315.000	.4450

MACH (4) = 1.246 BETAT (1) = -8.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3730	.5740	.4800	-.3740	-.1970	-.1830	.0210	.0720	.0660	.0300	.1500	-.0820	.2730	.4120	.3370
45.000	1.3730	.5370	.4830	-.3590	-.1820	-.0830							.3620	.5240	.4670
90.000	1.3730	.4140	.4220	-.3950	-.2320	-.1440	-.1340	.0340	.0260	.0310	.2570	.0680	.3430	.4240	.3830
135.000	1.3730	.2880	.2630	-.4540	-.3460	-.2340							.2260	.2830	.3120
180.000	1.3730	.2910	.1910	-.4730	-.3340	-.1970	-.0360	.0820	.0090	.2310	.3140	-.1850	.0760	.3960	.2920
225.000	1.3730	.3230	.1170	-.4660	-.3250	-.2580	.0030						.1010	.2890	.1080
270.000	1.3730	.4290	.5570	-.2560	-.3420	-.2730	.0100	.1070			-.1720	-.1590	.1010	.1150	.2470
315.000	1.3730	.5460	.5330	-.3510	-.3390	-.1680	.0600						.1300	.1180	.2480

X/LS .9670

PHI	
.000	.2300
45.000	.3330
90.000	.4190
135.000	.3490
180.000	.2460
225.000	.1740
270.000	.2810
315.000	.2500

MACH (4) = 1.248 BETAT (2) = -6.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3640	.5410	.4740	-.3750	-.2040	-.1650	.0320	.0900	.0500	.0200	.1310	-.0680	.3110	.4290	.3950
45.000	1.3640	.4770	.4480	-.3670	-.2040	-.1100							.3670	.5040	.4650
90.000	1.3640	.3360	.3780	-.4050	-.2630	-.1730	-.1070	.0250	.0070	-.0160	.2380	.0480	.3110	.3760	.3480
135.000	1.3640	.1980	.2490	-.4510	-.3580	-.2440							.2420	.3240	.3100
180.000	1.3640	.2450	.1810	-.4680	-.3750	-.2040	-.0370	.0880	-.0090	.1860	.3080	-.1680	.1200	.4580	.3000
225.000	1.3640	.2860	.1030	-.5130	-.3520	-.2900	.0150						.1370	.2850	.0800

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS10)

MACH (4) = 1.240 BETAT (2) = -6.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3640	.4000	.3510	-.2540	-.3760	-.2940	.0110	.0900			-.1330	-.1170	.0800	.0820	.1010
315.000	1.3640	.3280	.5380	-.3460	-.3330	-.1830	.0550						.1330	.1170	.2040

X/LS	.9879
PHI	
.000	.2300
45.000	.3680
90.000	.4150
135.000	.3180
180.000	.2230
225.000	.1680
270.000	.2560
315.000	.2790

MACH (4) = 1.250 BETAT (3) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3520	.3070	.4640	-.3720	-.2110	-.1840	.0180	.0280	.0350	.0080	.2110	-.0480	.3370	.4580	.4250
45.000	1.3520	.4140	.4160	-.3800	-.2350	-.1380							.3500	.4740	.4490
90.000	1.3520	.2870	.3340	-.4180	-.2910	-.1980	-.0540	.0110	-.0070	-.0540	.2120	.0220	.2830	.3410	.3190
135.000	1.3520	.1250	.2250	-.4550	-.3660	-.2310							.2640	.3540	.3100
180.000	1.3520	.1940	.1720	-.4570	-.3740	-.1500	-.0330	.0780	-.0450	.1490	.2880	-.2020	.1350	.3200	.2970
225.000	1.3520	.2500	.0900	-.3520	-.4040	-.3110	.0190						.1400	.2680	.0710
270.000	1.3520	.3770	.5490	-.2550	-.4220	-.3010	.0050	.0660			-.0840	-.1140	.0840	.1030	.1420
315.000	1.3520	.3110	.5380	-.3400	-.3280	-.1820	.0410						.1460	.1480	.2130

X/LS	.9879
PHI	
.000	.2380
45.000	.3890
90.000	.3990
135.000	.2840
180.000	.2120
225.000	.1640
270.000	.2410
315.000	.3100

AMES 11-70? IA9 OEA + S3 + T9 SRM BOOSTER (RBMS10)

MACH (4) = 1.249 BETAT (4) = -2.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9395
PHI															
.000	1.3400	.4830	.4570	-.3810	-.2110	-.1630	-.0030	.0000	.0260	-.0030	.0740	-.0160	.3690	.4920	.4660
45.000	1.3400	.3610	.3830	-.3940	-.2540	-.1610							.3270	.4430	.4370
90.000	1.3400	.2100	.3010	-.4260	-.3060	-.2020	-.0590	.0230	-.0270	-.0700	.1830	.0040	.2620	.3130	.2940
135.000	1.3400	.0850	.2390	-.4470	-.3470	-.2330							.2620	.3740	.3040
180.000	1.3400	.1570	.2130	-.4460	-.3850	-.1490	.0040	.0850	-.0640	.1250	.2400	-.2250	.1130	.3740	.2880
225.000	1.3400	.2240	.1380	-.5360	-.4440	-.3280	.0100						.1410	.2370	.0860
270.000	1.3400	.3600	.5590	-.2510	-.4830	-.3060	-.0350	.0440			-.0170	-.1100	.0870	.1210	.2050
315.000	1.3400	.5040	.5420	-.3390	-.3220	-.1360	.0230						.1760	.2200	.2210

X/LS	.9570
PHI	
.000	.3070
45.000	.4190
90.000	.3950
135.000	.2550
180.000	.2140
225.000	.1650
270.000	.2330
315.000	.3410

MACH (4) = 1.245 BETAT (5) = 2.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3120	.4460	.4290	-.3920	-.2070	-.1380	-.0650	-.0400	.0000	-.0520	.0060	.0250	.4580	.5750	.3200
45.000	1.3120	.2700	.3060	-.4260	-.3040	-.2020							.2820	.4050	.4290
90.000	1.3120	.1130	.2750	-.4470	-.3480	-.2190	-.0540	.0250	-.0540	-.0570	.1050	-.0330	.2950	.3090	.2720
135.000	1.3120	.0230	.2200	-.4470	-.3590	-.1640							.4050	.4380	.2950
180.000	1.3120	.1250	.2000	-.4650	-.3930	-.1500	.0000	.0450	-.0910	.0680	.1340	-.1700	.1750	.4580	.2400
225.000	1.3120	.1830	.1460	-.5350	-.4950	-.2660	-.0140						.1370	.1340	.0490
270.000	1.3120	.3240	.5670	-.2470	-.5910	-.3390	-.0940	.0030			.0240	-.1220	.0570	.0800	.0980
315.000	1.3120	.4940	.5490	-.3370	-.2960	-.1070	-.0110						.3080	.2790	.1580

X/LS	.9570
PHI	
.000	.2690
45.000	.4470
90.000	.3720
135.000	.2200
180.000	.2330

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMS10)

MACH (4) = 1.245 BETAT (5) = 2.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.1570
270.000	.1780
315.000	.3230

MACH (4) = 1.247 BETAT (6) = 4.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9384
PHI															
.000	1.2920	.4340	.4140	-.3960	-.1890	-.1310	-.1030	-.0530	-.0170	-.0390	-.0150	.0190	.4940	.5710	.5330
45.000	1.2920	.2290	.2710	-.4420	-.3290	-.2170							.2900	.3940	.3980
90.000	1.2920	.0580	.2490	-.4600	-.3650	-.2110	-.0610	.0080	-.0670	-.0620	.1160	-.0520	.3050	.3060	.2580
135.000	1.2920	-.0150	.2090	-.4610	-.3650	-.1380							.2990	.4350	.3080
180.000	1.2920	.1110	.1930	-.4610	-.3910	-.1200	-.0250	.0260	-.1480	.0620	.1480	-.1520	.1860	.3590	.2140
225.000	1.2920	.1790	.1530	-.5240	-.4960	-.1890	-.0380						.1310	.1420	.0370
270.000	1.2920	.3180	.3710	-.2450	-.5970	-.3260	-.1460	-.0170			.0190	-.1270	.0390	.0980	.0390
315.000	1.2920	.4980	.3440	-.3320	-.2770	-.0610	-.0310						.2880	.2800	.1400

X/LS .9870

PHI	
.000	.2980
45.000	.4510
90.000	.3410
135.000	.2100
180.000	.2570
225.000	.1400
270.000	.1700
315.000	.3490

MACH (6) = 1.248 BETAT (7) = 6.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9384
PHI															
.000	1.2740	.4070	.4030	-.4090	-.1850	-.1130	-.1480	-.0550	-.0210	-.0410	.0070	-.0110	.4750	.5980	.5780
45.000	1.2740	.1900	.2360	-.4580	-.3370	-.2400							.2790	.3880	.3790
90.000	1.2740	.0330	.2110	-.4580	-.3820	-.1810	-.0710	-.0220	-.0900	-.0020	.0830	-.0520	.3040	.3100	.2410
135.000	1.2740	.0330	.1920	-.4810	-.3690	-.1150							.2390	.3810	.2850
180.000	1.2740	.1020	.1800	-.4810	-.3580	-.1080	-.0580	.0010	-.1150	.1080	.1220	-.1490	.1850	.3840	.2030
225.000	1.2740	.1290	.1640	-.5240	-.4880	-.0990	-.0810						.1250	.1580	-.0040

[illegible] VARIANCE DATA - 1A9A

[illegible] (RBMSE)

[illegible]

[illegible] DEPENDENT VARIABLE CP

[illegible]

[illegible]

[illegible] DEPENDENT VARIABLE CP

[illegible]

[illegible]

[illegible]

[illegible]

AMES 11-7DT IA9 02A + S3 + T9 SRM BOOSTER (RBMS11)

MACH (1) = .507 BETAT (2) = -6.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.0900
45.000	.0940
90.000	.0960
135.000	-.0880
180.000	-.0880
225.000	-.1010
270.000	.0830
315.000	.0850

MACH (1) = .597 BETAT (3) = -4.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1136	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9900	.4080	-.0040	-.3020	-.0880	-.0130	.0080	.0280	.0240	.0100	-.0480	.1080	.5410	.4300	.2710
45.000	.9900	.2840	-.0780	-.3630	-.1390	-.0640							.5180	.3900	.2410
90.000	.9900	.0990	-.2070	-.3000	-.2060	-.1310	-.1130	-.1150	-.1000	-.0510	-.0300	.0380	.3880	.2620	.1180
135.000	.9900	.0030	-.3270	-.6120	-.1970	-.1220							.2900	.1790	.0440
180.000	.9900	-.0010	-.3770	-.5950	-.1570	-.0590	-.0500	-.0430	-.0040	.0250	-.0620	-.0350	.2130	.1530	.0250
225.000	.9900	-.0260	-.5400	-.9130	-.2330	-.1170	-.0930						.3180	.2370	.0880
270.000	.9900	.0930	-.1950	-1.2650	-.6550	-.3850	-.2000	-.1170			-.1860	.0660	.3040	.3490	.2520
315.000	.9900	.3610	.0120	-.3770	-.1410	-.0280	.0110						.4440	.3780	.2590

X/LS .9670

PHI	
.000	.1030
45.000	.0790
90.000	.0790
135.000	-.0760
180.000	-.0770
225.000	-.0970
270.000	.0830
315.000	.0830

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

MACH (1) = .599 BETAT (4) = -2.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9880	.4040	-.0070	-.3210	-.1000	-.0210	.0000	.0170	.0140	.0000	-.0320	.1270	.5290	.4340	.2920
45.000	.9860	.2440	-.1170	-.4030	-.1610	-.0860							.4760	.3660	.2100
90.000	.9860	.0670	-.2490	-.5290	-.2110	-.1430	-.1220	-.1210	-.1090	-.0550	-.0320	.0350	.3610	.2350	.0810
135.000	.9860	-.0020	-.3340	-.6250	-.1900	-.1090							.2420	.1540	.0360
180.000	.9860	-.0010	-.3745	-.5980	-.1580	-.0570	-.0460	-.0390	.0050	.0380	.0000	-.0070	.2930	.1590	.0220
225.000	.9860	-.0260	-.5290	-.9280	-.2400	-.1280	-.1060						.3070	.2090	.0900
270.000	.9860	.1060	-.1860	-1.2850	-.6560	-.4110	-.2270	-.1380			-.1480	.0780	.2970	.2910	.2040
315.000	.9860	.3800	.0320	-.3620	-.1400	-.0250	.0070						.4090	.3980	.2720

X/LS	.9670
PHI	
.000	.1020
45.000	.0330
90.000	.0540
135.000	-.0670
180.000	-.0690
225.000	-.1130
270.000	.0780
315.000	.1140

MACH (1) = .600 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	.9840	.3950	-.0130	-.3620	-.1190	-.0380	-.0220	.0090	-.0010	-.0220	-.0970	.1000	.3930	.4380	.2940
45.000	.9840	.2040	-.1630	-.4630	-.1860	-.1170							.4540	.3500	.1740
90.000	.9840	.0290	-.2880	-.5680	-.2220	-.1500	-.1360	-.1290	-.1110	-.0570	-.0170	.0450	.3240	.1940	.0530
135.000	.9840	-.0080	-.3330	-.6550	-.1870	-.1050							.2610	.1540	.0250
180.000	.9840	-.0040	-.3690	-.6110	-.1600	-.0700	-.0460	-.0290	.0120	.0440	-.0080	.0230	.4220	.2800	.1110
225.000	.9840	-.0280	-.5260	-.9440	-.2460	-.1400	-.1310						.3020	.1720	.0810
270.000	.9840	.1130	-.1770	-1.2900	-.6900	-.4410	-.2620	-.1670			-.1140	-.0130	.2110	.2330	.1980
315.000	.9840	.3980	.0500	-.3690	-.1380	-.0290	.0070						.4470	.4010	.2900

X/LS	.9670
PHI	
.000	.1120
45.000	.0250
90.000	.0280
135.000	-.0790
180.000	-.1020

AMES 11-70? IA9 OBA + S3 + T9 SRM BOOSTER (RBMS11)

MACH (1) = .605 BETAT (5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	-.0530
270.000	.0580
315.000	.1400

MACH (1) = .598 BETAT (6) = 2.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	.9840	.3780	-.0290	-.3750	-.1350	-.0560	-.0400	-.0170	-.0220	-.0410	-.0490	.1010	.3520	.4440	.2900
45.000	.9840	.1570	-.1970	-.5120	-.2180	-.1440							.4260	.2620	.1380
90.000	.9840	.0090	-.2750	-.6050	-.2210	-.1530	-.1340	-.1270	-.1070	-.0480	-.0200	.0550	.2850	.1660	.0230
135.000	.9840	-.0120	-.3360	-.6610	-.1740	-.0940							.2900	.1240	-.0080
180.000	.9840	-.0100	-.3660	-.6260	-.1680	-.0700	-.0500	-.0350	.0030	.0250	-.0370	.0050	.4130	.2440	.0870
225.000	.9840	-.0300	-.5150	-.9500	-.2520	-.1490	-.1330						.2870	.1890	.0700
270.000	.9840	.1350	-.1610	-1.3440	-.6970	-.4490	-.2830	-.1840			-.1170	-.0030	.2250	.2130	.1930
315.000	.9840	.4150	.0670	-.3660	-.1370	-.0330	.0010						.4730	.3690	.3240

X/LS .9870

PHI	
.000	.1070
45.000	-.0080
90.000	-.0070
135.000	-.0990
180.000	-.1200
225.000	-.1150
270.000	.0530
315.000	.1790

MACH (1) = .597 BETAT (7) = 3.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	.9790	.3690	-.0330	-.3850	-.1390	-.0680	-.0460	-.0250	-.0350	-.0510	-.0610	.0930	.3580	.4410	.2890
45.000	.9790	.1400	-.2140	-.5330	-.2320	-.1600							.4050	.2650	.1120
90.000	.9790	-.0060	-.3290	-.6180	-.2310	-.1530	-.1330	-.1290	-.1000	-.0410	-.0160	.0620	.2900	.1620	.0030
135.000	.9790	-.0180	-.3460	-.6610	-.1700	-.0910							.3390	.1160	-.0410
180.000	.9790	-.0180	-.3690	-.6400	-.1700	-.0770	-.0510	-.0400	-.0010	.0160	-.0360	.0090	.4170	.2390	.0770
225.000	.9790	-.0250	-.5040	-.9490	-.2540	-.1520	-.1330						.2990	.1950	.0810

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS11)

MACH (1) = .597 BETAT (7) = 3.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	.9790	.1410	-.1520	-1.3960	-.8900	-.4580	-.2880	-.1920			-.1010	-.0280	.2270	.2750	.1960
315.000	.9790	.4230	.0660	-.3570	-.1370	-.0320	.0040						.4080	.4270	.3550

X/LS	.9670
PHI	
.000	.1160
45.000	-.0210
90.000	-.0210
135.000	-.1400
180.000	-.1660
225.000	-.1600
270.000	.0360
315.000	.1910

MACH (1) = .800 BETAT (8) = 4.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	.9710	.3750	-.0300	-.3700	-.1440	-.0730	-.0570	-.0300	-.0390	-.0600	-.0650	.0970	.5490	.4320	.2800
45.000	.9710	.1200	-.2560	-.5390	-.2490	-.1690							.3830	.2320	.0920
90.000	.9710	-.0280	-.3360	-.6280	-.2360	-.1520	-.1350	-.1210	-.0930	-.0550	-.0210	.0640	.2300	.1510	-.0030
135.000	.9710	-.0210	-.3470	-.6630	-.1670	-.0870							.3610	.1180	-.0490
180.000	.9710	-.0180	-.3640	-.6320	-.1710	-.0770	-.0570	-.0400	-.0010	.0220	-.0380	.0150	.4080	.2310	.0810
225.000	.9710	-.0320	-.4940	-.9210	-.2510	-.1500	-.1210						.2880	.2030	.0750
270.000	.9710	.1410	-.1900	-1.3750	-.6850	-.4600	-.2930	-.1860			-.1290	.0450	.2480	.2710	.1970
315.000	.9710	.4330	.0790	-.3480	-.1310	-.0310	.0090						.5070	.4480	.3570

X/LS	.9670
PHI	
.000	.1030
45.000	-.0400
90.000	-.0420
135.000	-.1800
180.000	-.1780
225.000	-.0940
270.000	.0150
315.000	.1890

MACH (1) = .601 BETAT (9) = 8.150

SECTION : 1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9386
PHI															
.000	.9640	.3620	-.0380	-.3550	-.1600	-.0840	-.0730	-.0470	-.0540	-.0720	-.0800	.109	.3580	.4450	.2790
45.000	.9640	.0780	-.2700	-.5760	-.2790	-.2000							.3730	.2090	.0550
90.000	.9640	-.0390	-.3620	-.6380	-.2370	-.1500	-.1240	-.1120	-.0800	-.0360	-.0200	.0680	.2510	.1390	-.0080
135.000	.9640	-.0210	-.3560	-.6390	-.1620	-.0760							.3720	.1950	.0310
180.000	.9640	-.0200	-.3760	-.6350	-.1750	-.0790	-.0590	-.0440	.0050	.0300	-.0230	.0230	.3140	.2030	.0570
225.000	.9640	-.0320	-.4980	-.9050	-.2600	-.1650	-.1170						.3240	.2100	.0820
270.000	.9640	.1620	-.1340	-1.3920	-.7120	-.4900	-.3070	-.1790			-.1270	.0650	.3430	.2730	.1560
315.000	.9640	.4630	.1070	-.3350	-.1190	-.0210	.0190						.3560	.4690	.4020

X/LS	.9870
PHI	
.000	.1130
45.000	-.0520
90.000	-.0550
135.000	-.1210
180.000	-.1200
225.000	-.0960
270.000	-.0130
315.000	.2340

MACH (1) = .800 BETAT (10) = 8.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	.9480	.3450	-.0510	-.3780	-.1800	-.1190	-.0920	-.0670	-.0850	-.0920	-.0800	.1070	.3580	.4320	.2690
45.000	.9480	.0330	-.3070	-.6220	-.3060	-.2450							.3520	.1790	.0180
90.000	.9480	-.0620	-.3860	-.6480	-.2260	-.1510	-.1220	-.1080	-.0800	-.0340	-.0120	.0510	.2510	.1480	-.0240
135.000	.9480	-.0280	-.3635	-.6470	-.1560	-.0710							.2710	.1480	.0150
180.000	.9480	-.0340	-.3690	-.6240	-.1930	-.0920	-.0640	-.0490	.0160	.0300	-.0340	-.0030	.4180	.2390	.0690
225.000	.9480	-.0360	-.4810	-.8920	-.2600	-.1780	-.1160						.3460	.1340	-.0010
270.000	.9480	.1760	-.1410	-1.3780	-.7230	-.5250	-.3300	-.1950			-.1270	.0690	.3370	.1950	.0060
315.000	.9480	.4810	.1240	-.3070	-.1080	-.0130	.0250						.5730	.4970	.4220

X/LS	.9870
PHI	
.000	.1070
45.000	-.1080
90.000	-.1080
135.000	-.1130
180.000	-.1110

MACH (1) = .800 BETAT (10) = 8.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9679

PHI
225.000 -.0790
270.000 -.1020
315.000 .2570

MACH (2) = .900 BETAT (1) = -8.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1420	.5180	.2050	-.9880	-.1000	.0250	.0400	.0640	.0780	.0750	.0070	-.0240	.4930	.4220	.3070
													.6130	.5290	.3850
45.000	1.1420	.4590	.1850	-.9640	-.1280	.0130							.4960	.4070	.2520
90.000	1.1420	.2750	.0770	-1.0270	-.3270	-.0700	-.0650	-.0720	-.0260	.0770	.0790	-.0220	.2960	.2130	.0810
135.000	1.1420	.1250	-.0650	-1.1070	-.5510	-.1260							.2260	.1540	.0330
180.000	1.1420	.1190	-.1070	-.8190	-.4250	-.0810	-.0370	-.0320	.0690	.1580	.0490	-.1600	.3050	.1620	.0650
225.000	1.1420	.1080	-.2240	-.5180	-.5410	-.2190	.0500						.1380	.2240	.2680
270.000	1.1420	.2190	.1910	-.5930	-.5410	-.2550	.0040	.0170			-.1010	-.1850	.2650	.2260	.2330
315.000	1.1420	.4340	.2640	-.9410	-.2190	-.0110	.0580								

X/LS .9679

PHI
.000 .1950
45.000 .1930
90.000 .2230
135.000 -.0110
180.000 -.0370
225.000 -.0630
270.000 .1840
315.000 .1270

MACH (2) = .903 BETAT (2) = -8.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1430	.5150	.2080	-.9870	-.2840	.0180	.0280	.0460	.0650	.0600	-.0010	.0160	.5300	.4800	.3380
													.5930	.5090	.3850
45.000	1.1430	.4240	.1580	-.9830	-.3600	-.0070							.4570	.3860	.2130
90.000	1.1430	.2440	.0500	-1.0480	-.5080	-.0830	-.0820	-.0970	-.0530	.0480	.0960	-.0260	.2670	.1910	.0720
135.000	1.1430	.1230	-.0680	-1.1110	-.4030	-.1060							.2800	.1710	.0430
180.000	1.1430	.1200	-.1010	-.9270	-.4630	-.0900	-.0410	-.0450	.0570	.1230	.0810	-.1500	.3040	.1480	.0580
225.000	1.1430	.1080	-.2240	-.5420	-.5810	-.2410	.0240								

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (REMS11)

MACH (2) = .903 BETAT (2) = -6.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.1430	.2260	.1970	-.6440	-.5760	-.2680	-.0260	-.0080			-.0950	-.1590	.1490	.2040	.2470
315.000	1.1430	.4350	.2760	-.9310	-.4090	-.0220	.0360						.3090	.2600	.2490

X/LS	.9670
PHI	
.000	.2230
45.000	.2230
90.000	.2110
135.000	-.0060
180.000	-.0470
225.000	-.0780
270.000	.1620
315.000	.1610

MACH (2) = .903 BETAT (3) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1390	.5170	.2070	-.9840	-.4150	.0120	.0160	.0340	.0570	.0430	-.0140	.0410	.3650	.3010	.3880
45.000	1.1390	.3350	.1310	-.9980	-.5380	-.0250							.5740	.4880	.3390
90.000	1.1390	.2180	.0350	-1.0600	-.5160	-.0840	-.0910	-.1110	-.0550	.0320	.0350	-.0150	.4190	.3250	.1740
135.000	1.1390	.1200	-.0670	-1.1100	-.4210	-.0750							.2470	.1730	.0830
180.000	1.1390	.1220	-.0960	-1.0980	-.3260	-.0880	-.0210	-.0500	.0450	.1140	.0330	-.1040	.2870	.1990	.0850
225.000	1.1390	.1080	-.2230	-1.1570	-.5550	-.2650	-.0190						.2700	.1750	.0930
270.000	1.1390	.2400	.2110	-.8720	-.6190	-.3130	-.0830	-.0770			-.0860	-.1070	.1770	.2320	.2320
315.000	1.1390	.4790	.2890	-.9180	-.7630	-.0190	.0290						.3680	.3270	.2860

X/LS	.9570
PHI	
.000	.2320
45.000	.2110
90.000	.1890
135.000	-.0180
180.000	-.0550
225.000	-.0750
270.000	.1380
315.000	.1910

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS11)

MACH (2) = .901 BETAT (4) = -2.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1350	.5120	.2040	-.9850	-.4470	-.0020	.0020	.0170	.0360	.0170	-.0310	.0540	.5850	.5240	.3840
45.000	1.1350	.3570	.1000	-1.0230	-.5800	-.0510							.5400	.4570	.3050
90.000	1.1350	.1860	-.0150	-1.0780	-.5460	-.0920	-.1050	-.1250	-.0720	.0190	.0200	.0000	.3850	.2880	.1340
135.000	1.1350	.1190	-.0700	-1.1140	-.4250	-.0540							.2290	.1780	.0480
180.000	1.1350	.1260	-.0890	-1.1000	-.3550	-.0990	-.0310	-.0570	.0450	.1090	.0200	-.0870	.3570	.2520	.1050
225.000	1.1350	.1110	-.2130	-1.1740	-.5840	-.2700	-.0330						.2590	.1710	.0820
270.000	1.1350	.2360	.2140	-.8740	-.6270	-.3400	-.0970	-.0940			-.0680	-.0690	.1780	.2220	.2200
315.000	1.1350	.5000	.3010	-.9050	-.7580	-.0240	.0210						.4100	.3590	.3200

X/LS	.9670
PHI	
.000	.2400
45.000	.1610
90.000	.1570
135.000	-.0280
180.000	-.0710
225.000	-.0350
270.000	.1300
315.000	.2310

MACH (2) = .901 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1290	.5070	.1940	-.9740	-.4480	-.0370	-.0280	-.0160	.0000	-.0240	-.0680	.0670	.6380	.5570	.4110
45.000	1.1290	.2900	.0310	-1.0900	-.6340	-.1100							.4900	.3810	.2250
90.000	1.1290	.1440	-.0540	-1.1000	-.4830	-.0960	-.1190	-.1400	-.0890	.0200	-.0040	.0240	.2660	.2130	.0800
135.000	1.1290	.1220	-.0710	-1.1100	-.4410	-.0180							.2780	.1780	.0570
180.000	1.1290	.1300	-.0780	-1.1030	-.3920	-.1060	-.0450	-.0490	.0420	.0820	-.0030	-.0680	.3470	.2310	.1090
225.000	1.1290	.1180	-.1950	-1.1820	-.6180	-.2730	-.0590						.2700	.2030	.0960
270.000	1.1290	.2850	.2290	-.8760	-.6380	-.3790	-.1300	-.1260			-.0940	-.0500	.2100	.2420	.2310
315.000	1.1290	.5440	.3310	-.8640	-.7150	-.0230	.0190						.5220	.4340	.3870

X/LS	.9670
PHI	
.000	.2710
45.000	.1140
90.000	.0870
135.000	-.0420
180.000	-.0810

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS11)

MACH (2) = .901 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	-.0410
270.000	.1150
315.000	.2970

MACH (2) = .900 BETAT (6) = 4.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1240	.5120	.1920	-.9710	-.4540	-.0590	-.0550	-.0340	-.0210	-.0480	-.0910	.0710	.6500	.5610	.4140
45.000	1.1240	.2660	.0000	-1.0620	-.6630	-.1420							.4640	.3340	.1800
90.000	1.1240	.1190	-.0810	-1.1080	-.4780	-.0960	-.1300	-.1380	-.0460	.0070	-.0320	.0260	.2470	.1790	.0380
135.000	1.1240	.1170	-.0700	-1.1080	-.4330	-.0200							.3210	.1880	.0250
180.000	1.1240	.1270	-.0720	-1.0980	-.3930	-.1090	-.0590	-.0530	.0430	.0640	-.0250	-.0450	.3520	.2490	.0980
225.000	1.1240	.1190	-.1770	-1.1810	-.6320	-.2780	-.0670						.2990	.2210	.0890
270.000	1.1240	.2900	.2320	-.8710	-.6290	-.4020	-.1530	-.1480			-.1040	-.0480	.2400	.2570	.2160
315.000	1.1240	.5620	.3450	-.6470	-.6810	-.0310	.0270						.5490	.4770	.4360

X/LS .9670

PHI	
.000	.2750
45.000	.0670
90.000	.0390
135.000	-.0840
180.000	-.1170
225.000	-.1130
270.000	.0770
315.000	.3210

MACH (2) = .902 BETAT (7) = 6.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1130	.4960	.1750	-.9620	-.4520	-.0890	-.0660	-.0580	-.0350	-.0680	-.0970	.0900	.6540	.5610	.4080
45.000	1.1130	.2200	-.0390	-1.0880	-.6660	-.1860							.4300	.2970	.1230
90.000	1.1130	.0970	-.0970	-1.1260	-.4730	-.1050	-.1190	-.1280	-.0460	-.0060	-.0350	.0250	.2490	.1820	.0120
135.000	1.1130	.1130	-.0810	-1.1160	-.4330	-.0240							.3160	.1980	.0400
180.000	1.1130	.1230	-.0750	-1.1060	-.4270	-.0950	-.0670	-.0650	.0350	.0530	-.0300	-.0760	.3550	.2340	.0880
225.000	1.1130	.1220	-.1690	-1.1800	-.6510	-.2630	-.0760						.2680	.1800	.0140

AMES 11-707 IA9 ORA + 33 + T9 SRM BOOSTER (RBMS11)

MACH (2) = .902 BETAT (7) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	.1130	.3080	.2200	-.8700	-.6210	-.4800	-.1900	-.1870			-.1040	-.0610	.2810	.1980	.1070
315.000	1.1130	.5840	.3560	-.8270	-.6160	-.0260	.0190						.3680	.4840	.4570

X/LS	.9870
PHI	
.000	.2750
45.000	.0240
90.000	-.0040
135.000	-.1000
180.000	-.0910
225.000	-.0880
270.000	-.0080
315.000	.3450

MACH (2) = .900 BETAT (8) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1040	.4870	.1680	-.9540	-.4800	-.1180	-.0680	-.0650	-.0570	-.0830	-.1170	.0780	.0890	.5530	.4020
45.000	1.1040	.1800	-.0810	-1.1020	-.6780	-.2340							.4070	.2590	.0680
90.000	1.1040	.0880	-.1240	-1.1300	-.4890	-.1110	-.1060	-.1080	-.0540	-.0120	-.0490	.0070	.2420	.1740	-.0010
135.000	1.1040	.1170	-.0800	-1.1110	-.4830	-.0520							.2080	.1080	.0370
180.000	1.1040	.1180	-.0670	-1.1010	-.4350	-.0710	-.0660	-.0700	.0290	.0310	-.0560	-.0970	.2740	.1080	.0330
225.000	1.1040	.1290	-.1380	-1.1660	-.6500	-.1930	-.1140						.1870	.0500	-.0800
270.000	1.1040	.3220	.2270	-.8580	-.5390	-.4640	-.2490	-.2380			-.1150	-.0820	.2390	.0670	-.0300
315.000	1.1040	.6040	.3720	-.7930	-.5080	-.0300	.0390						.3850	.5020	.4470

X/LS	.9870
PHI	
.000	.2540
45.000	-.0140
90.000	-.0550
135.000	-.1200
180.000	-.0970
225.000	-.0920
270.000	-.1540
315.000	.3500

AMES 11-7ft IA9 02A + S3 + T9 SRM BOOSTER (RBMS11)

MACH (3) = 1.103 BETAT (1) = -8.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2650	.6370	.4190	-.5560	-.2460	-.0610	.0580	.0960	.0450	.1040	.1620	-.1360	.4550	.5000	.3870
45.000	1.2650	.5820	.3980	-.5440	-.2700	-.1310							.5520	.6120	.4900
90.000	1.2650	.4920	.2670	-.6050	-.3680	-.2390	-.0150	.0340	-.0410	.1500	.2360	-.0470	.4000	.4740	.3560
135.000	1.2650	.2420	.1160	-.6920	-.5220	-.1070							.2060	.2430	.1820
180.000	1.2650	.2340	.0710	-.6820	-.3680	-.0910	.0530	.0140	.0060	.2350	.2140	-.2990	.1760	.2380	.1350
225.000	1.2650	.2330	-.0590	-.7770	-.3940	-.2380	.0390						.2150	.1850	.0980
270.000	1.2650	.3460	.3690	-.4720	-.3940	-.2300	.0010	.0700			.0250	-.1570	.1170	.1870	.2790
315.000	1.2650	.5550	.4710	-.5210	-.4290	.0150	.0450						.1990	.2200	.2660

X/LS	.9670
PHI	
.000	.3130
45.000	.3660
90.000	.3870
135.000	.1780
180.000	.1030
225.000	.0460
270.000	.2530
315.000	.2280

MACH (3) = 1.098 BETAT (2) = -6.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2610	.6220	.4200	-.5530	-.2130	-.0430	.0230	.0890	.0610	.0500	.1390	-.0850	.4870	.5400	.4310
45.000	1.2610	.5440	.3730	-.5530	-.2960	-.1520							.5400	.6050	.4750
90.000	1.2610	.3580	.2450	-.6130	-.3900	-.2620	-.0370	.0160	-.0750	.0730	.2110	-.0640	.3550	.4290	.3150
135.000	1.2610	.2220	.1260	-.6690	-.5240	-.1190							.2100	.2350	.1650
180.000	1.2610	.2210	.0810	-.6690	-.4560	-.0930	.0660	.0170	-.0230	.1890	.2100	-.2850	.2300	.2700	.1430
225.000	1.2610	.2140	-.0510	-.7820	-.4060	-.2540	.0350						.2410	.1880	.0980
270.000	1.2610	.3400	.3750	-.4650	-.4030	-.2760	-.0160	.0490			-.0060	-.1390	.1140	.1920	.2730
315.000	1.2610	.5610	.4790	-.5060	-.4140	.0130	.0150						.2230	.2570	.2770

X/LS	.9670
PHI	
.000	.3310
45.000	.3460
90.000	.3720
135.000	.1770
180.000	.0850

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS11)

MACH (3) = 1.098 BETAT (2) = -6.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0380
270.000	.2440
315.000	.2810

MACH (3) = 1.102 BETAT (3) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2580	.8180	.4170	-.5530	-.2040	-.0280	-.0100	.1060	.0490	.0120	.1140	-.0470	.5140	.5290	.4800
45.000	1.2580	.5090	.3470	-.5710	-.3180	-.1750							.3250	.3790	.4330
90.000	1.2580	.3220	.2180	-.6280	-.4190	-.2810	-.0640	.0250	-.1120	.0240	.1840	-.0690	.3190	.3850	.2790
135.000	1.2580	.2230	.1270	-.6700	-.5290	-.1080							.2330	.2580	.1220
180.000	1.2580	.2350	.0870	-.6690	-.5170	-.1000	.0690	.0250	-.0540	.1540	.2090	-.2800	.3250	.5080	.1820
225.000	1.2580	.2190	-.0480	-.7800	-.4240	-.2640	.0350						.2570	.1750	.0830
270.000	1.2580	.3430	.3820	-.4640	-.4160	-.3260	-.0260	.0510			-.0520	-.3190	.1130	.1980	.2630
315.000	1.2580	.5670	.4860	-.4980	-.4030	-.0010	.0010						.2520	.2820	.2720

X/LS .9670

PHI	
.000	.3430
45.000	.3750
90.000	.3580
135.000	.1570
180.000	.0640
225.000	.0430
270.000	.2270
315.000	.2910

MACH (3) = 1.101 BETAT (4) = -2.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2510	.6200	.4140	-.5550	-.1980	-.0380	-.0280	.0360	.0280	-.0190	.0980	-.0290	.5430	.5990	.4910
45.000	1.2510	.4580	.3140	-.5850	-.3340	-.1870							.4980	.5330	.4280
90.000	1.2510	.2810	.1880	-.6400	-.4510	-.2920	-.0010	-.0090	-.1360	-.0180	.1380	-.0740	.2850	.3030	.2390
135.000	1.2510	.2070	.1270	-.6680	-.5330	-.1120							.2580	.2450	.1330
180.000	1.2510	.2190	.0900	-.6820	-.5270	-.1070	.0650	.0110	-.0350	.1330	.1830	-.2380	.3650	.5390	.1870
225.000	1.2510	.2070	-.0490	-.7940	-.4330	-.2700	.0450						.2920	.4720	.0960

TABULATED PRESSURE DATA - 149A

DELTA CP = -2.03%

DEPENDENT VARIABLE CP

DELTA CP = 0.00%

DEPENDENT VARIABLE CP

TABULATED PRESSURE DATA - TABS

MACH (5) = 1.100 BETAT (5) = 4.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2125	.5625	.4780	-.5330	-.1525	-.0950	-.1250	.0170	-.0245	-.0945	.0480	-.0330	.5785	.8167	.3267
45.000	1.2125	.3350	.2280	-.6240	-.3330	-.2590							.3500	.4254	.2137
90.000	1.2125	.1990	.1330	-.6653	-.4980	-.2830	-.0180	-.0495	-.1350	.0760	.0040	-.0480	.2911	.2751	.1507
135.000	1.2125	.1725	.1430	-.6810	-.5210	-.0670							.3260	.2511	.1537
180.000	1.2125	.1810	.1370	-.6810	-.5230	-.0740	.0750	-.0550	-.0690	.0690	.1020	-.0210	.3197	.2827	.1617
225.000	1.2125	.3110	.2220	-.7460	-.3680	-.1850	.0290						.2511	.1677	.0447
270.000	1.2125	.2750	.4030	-.4490	-.7680	-.5510	.0110	-.0340			.0150	-.1180	.1171	.1560	.0117
315.000	1.2125	.5570	.5340	-.4190	-.2810	-.0240	-.0170						.3791	.3031	.1337

X/LS .9670

PHI	
.000	.4190
45.000	.2420
90.000	.2140
135.000	.0890
180.000	.0480
225.000	.0430
270.000	.1470
315.000	.3900

MACH (5) = 1.100 BETAT (7) = 6.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1950	.5290	.3980	-.5330	-.1440	-.1300	-.1450	-.0220	-.0520	-.0970	.0110	-.0270	.5690	.8180	.3300
45.000	1.1950	.2890	.1850	-.6470	-.3630	-.3110							.3530	.3940	.2740
90.000	1.1950	.1580	.1110	-.6760	-.5100	-.2620	-.0420	-.0790	-.1960	.0180	.0840	-.0780	.2790	.2830	.1420
135.000	1.1950	.1580	.1350	-.6830	-.5220	-.0780							.3120	.3040	.1850
180.000	1.1950	.1430	.1330	-.6580	-.5130	-.0700	.0490	-.0790	-.0780	.1040	.0740	-.2190	.3030	.2710	.1290
225.000	1.1950	.0990	.0310	-.7380	-.6890	-.1810	-.0070						.2090	.0710	-.0170
270.000	1.1950	.2220	.3990	-.4450	-.7460	-.5960	-.0190	-.0680			.0090	-.1380	.0770	.0840	.1210
315.000	1.1950	.5450	.5420	-.3990	-.2410	-.0540	-.0210						.3590	.2990	.3887

X/LS .9670

PHI	
.000	.3980
45.000	.2210
90.000	.1770
135.000	.0830
180.000	.0630

AMES 11-707 IA9 C2A + S3 + T9 SRM BOOSTER (RBWS11)

MACH (3) = 1.100 BETAT (7) = 6.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9679

PHI	
225.000	.0330
270.000	.0750
315.000	.4130

MACH (3) = 1.100 BETAT (8) = 8.300

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1700	.4920	.4030	-.5150	-.1220	-.1590	-.1740	-.0550	-.0380	-.1000	-.0030	-.0140	.6030	.6350	.5360
45.000	1.1700	.2230	.1420	-.6660	-.3990	-.3720							.3470	.3690	.2330
90.000	1.1700	.1130	.0910	-.6860	-.5180	-.2290	-.0780	-.1170	-.1560	-.0060	.0290	-.0930	.2760	.2410	.1200
135.000	1.1700	.1400	.1330	-.6660	-.5240	-.0640							.3420	.3330	.1690
180.000	1.1700	.1160	.1370	-.6590	-.5060	-.0640	.0290	-.1100	-.0300	.0990	.0450	-.2290	.3030	.2270	.0780
225.000	1.1700	.0490	.0550	-.7210	-.6760	-.1260	-.0260						.1590	.0340	-.0420
270.000	1.1700	.1880	.4120	-.4440	-.6190	-.6060	-.0970	-.1320			-.0140	-.1660	.0890	.0140	.0390
315.000	1.1700	.5430	.5280	-.4100	.0240	-.0800	-.0610						.3670	.3440	.3910

X/LS .9679

PHI	
.000	.4240
45.000	.1770
90.000	.1410
135.000	.0470
180.000	.0930
225.000	.0100
270.000	-.0210
315.000	.4490

MACH = 1.245 BETAT (1) = -8.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3540	.6340	.5110	-.3680	-.1720	-.1360	.0480	.0510	.0760	.0480	.1800	-.0610	.3470	.4880	.4280
45.000	1.3540	.5710	.4860	-.3610	-.1730	-.0710							.4350	.5620	.5240
90.000	1.3540	.3890	.3990	-.4150	-.2550	-.1720	-.1850	-.0210	.0020	.0230	.2780	.0750	.3360	.4180	.3970
135.000	1.3540	.2490	.2020	-.4840	-.3870	-.2880							.2140	.1920	.2180
180.000	1.3540	.2600	.1370	-.4970	-.3400	-.2440	-.0630	.0430	.0030	.2080	.3020	-.1690	.0970	.3230	.2430
225.000	1.3540	.2730	.0170	-.3830	-.3640	-.3040	-.0120						.1210	.3220	.1140

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM311)

MACH (4) = 1.245 BETAT (1) = -8.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3540	.3840	.4980	-.2820	-.3880	-.2990	-.0690	.0750			-.1290	-.1450	.1090	.1500	.1940
315.000	1.3340	.5740	.3670	-.3340	-.2970	-.1190	.0800						.1620	.1770	.2590

X/LS	.9870
PHI	
.000	.2530
45.000	.3710
90.000	.4510
135.000	.3240
180.000	.1910
225.000	.1380
270.000	.2940
315.000	.2680

MACH (4) = 1.249 BETAT (2) = -6.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3480	.8040	.5080	-.3830	-.1520	-.1350	.0470	.0580	.0820	.0320	.1450	-.0400	.3740	.4930	.4470
													.3990	.5480	.4980
45.000	1.3480	.9110	.4580	-.3690	-.1980	-.1040							.3340	.3710	.3090
90.000	1.3480	.9070	.3800	-.4230	-.2890	-.2000	-.1930	-.0570	-.0170	-.0340	.2590	.0580	.2350	.2220	.2210
135.000	1.3480	.1880	.1870	-.4720	-.3940	-.2880							.1310	.4140	.2840
180.000	1.3480	.2120	.1270	-.4890	-.3540	-.2550	-.0830	.0580	-.0230	.1560	.3220	-.1620	.1800	.3380	.0830
225.000	1.3480	.2310	-.0040	-.4170	-.3870	-.3210	-.0070						.1030	.1100	.1800
270.000	1.3480	.3580	.4930	-.2770	-.3980	-.3140	-.1190	.0670			-.1120	-.1120	.1810	.1970	.2370
315.000	1.3480	.5590	.3740	-.3240	-.2870	-.1280	.0590								

X/LS	.9870
PHI	
.000	.2970
45.000	.4080
90.000	.4390
135.000	.2880
180.000	.1710
225.000	.1380
270.000	.2780
315.000	.3080

AMES 11-707 IA9 CEA + 53 + 79 SRM BOOSTER (RBMS11)

MACH (4) = 1.249 BETAT (3) = -4.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3330	.5750	.5030	-.3640	-.1580	-.1410	.0220	.0100	.0420	.0190	.1180	-.0180	.3920	.5170	.4770
45.000	1.3330	.4540	.4240	-.3810	-.2200	-.1400							.3680	.4970	.4780
90.000	1.3330	.2490	.3000	-.4360	-.3070	-.2340	-.1930	-.0780	-.0380	-.0830	.2320	.0240	.3050	.3540	.2800
135.000	1.3330	.0900	.1700	-.4800	-.4040	-.2630							.2790	.2660	.2300
180.000	1.3330	.1660	.1150	-.4800	-.3580	-.2840	-.0510	.0650	-.0440	.1410	.3190	-.1840	.1410	.3030	.2840
225.000	1.3330	.1900	-.0250	-.4610	-.4270	-.3810	.0070						.1650	.3000	.0890
270.000	1.3330	.3260	.4880	-.2770	-.4430	-.3440	-.0760	.0650			-.0710	-.1000	.1070	.1210	.1890
315.000	1.3330	.5450	.5770	-.3190	-.2820	-.1150	.0380						.1700	.1940	.2370

X/LS	.9670
PHI	
.000	.2940
45.000	.4250
90.000	.4240
135.000	.2530
180.000	.1590
225.000	.1470
270.000	.2800
315.000	.3360

MACH (4) = 1.248 BETAT (4) = -2.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3200	.5510	.4940	-.3640	-.1530	-.1070	-.0060	-.0150	.0250	.0030	.0710	.0070	.4230	.5440	.5080
45.000	1.3200	.3990	.3900	-.3930	-.2350	-.1610							.3590	.4820	.4800
90.000	1.3200	.1680	.2930	-.4430	-.3350	-.2390	-.2150	-.0500	-.0580	-.1010	.1990	.0080	.2790	.3080	.2840
135.000	1.3200	.0470	.1870	-.4690	-.3850	-.2650							.3090	.2900	.2330
180.000	1.3200	.1300	.1580	-.4590	-.3990	-.2980	-.0080	.0860	-.0480	.1340	.2760	-.2030	.1490	.3410	.2840
225.000	1.3200	.1500	.0140	-.5530	-.4860	-.3900	-.0120						.1710	.2800	.0880
270.000	1.3200	.3010	.4880	-.2760	-.5200	-.3640	-.0490	.0620			-.0160	-.0930	.1000	.1380	.0910
315.000	1.3200	.5360	.5870	-.3120	-.2700	-.0720	.0190						.1990	.2410	.2250

X/LS	.9670
PHI	
.000	.3300
45.000	.4500
90.000	.4360
135.000	.2260
180.000	.1380

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 CPA + S3 + T9 SRM BOOSTER (RUN511)

MACH (4) = 1.248 BETAT (4) = -2.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.1520
270.000	.2490
315.000	.3680

MACH (4) = 1.248 BETAT (5) = 2.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9308
PHI															
.000	1.2920	.5080	.4850	-.3780	-.1480	-.0940	-.0700	-.0630	-.0110	-.0310	-.0085	.0500	.5190	.3980	.3500
													.2920	.4590	.4280
45.000	1.2920	.5030	.3080	-.4300	-.2990	-.2040							.2920	.2890	.2420
90.000	1.2920	.5080	.2500	-.4620	-.3720	-.2680	-.1110	-.0120	-.0700	-.0850	.1120	-.0220	.3890	.3530	.2130
135.000	1.2920	-.0170	.1780	-.4620	-.3870	-.2420							.2370	.4270	.2240
180.000	1.2920	.0880	.1440	-.4880	-.4210	-.1890	.0820	.0530	-.0630	.0770	.1740	-.1470	.1740	.1350	.0460
225.000	1.2920	.1190	.0280	-.5080	-.5250	-.3680	-.0620						.0430	.0880	.1090
270.000	1.2920	.2080	.4940	-.2730	-.5980	-.5980	-.0790	.9110			.0400	-.1010	.3210	.2810	.1530
315.000	1.2920	.5360	.5820	-.3030	-.2340	-.0530	.0020								

X/LS .9670

PHI	
.000	.2880
45.000	.4710
90.000	.5710
135.000	.2080
180.000	.1970
225.000	.1480
270.000	.1740
315.000	.3480

MACH (4) = 1.247 BETAT (6) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9308
PHI															
.000	1.2730	.4930	.4910	-.3850	-.1190	-.0790	-.1050	-.0850	-.0850	-.0890	-.0240	.0380	.5020	.3980	.3890
													.3020	.4120	.3980
45.000	1.2730	.2800	.2570	-.4480	-.3140	-.2230							.3090	.2990	.2200
90.000	1.2730	.0490	.1790	-.4770	-.3920	-.2740	-.0980	-.0220	-.0780	-.0850	.1119	-.0210	.3040	.3900	.2310
135.000	1.2730	-.0240	.1800	-.4760	-.3900	-.1810							.2520	.3780	.2070
180.000	1.2730	.0880	.1340	-.4900	-.4200	-.1520	.0070	.0410	-.0810	.0800	.1810	-.1340	.1893	.1.40	.0250
225.000	1.2730	.0710	.0320	-.5850	-.5330	-.3110	-.1000								

AMES 11-707 IA9 OPA + 33 + 79 SRM BOOSTER (RSMS11)

MACH (6) = 1.247 BETAT (6) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8249	.8817	.9044	.9388
PHI															
270.000	1.2730	.2510	.9030	-.2650	-.5940	-.3770	-.1030	-.0110			.0300	-.1040	.0690	.1310	.0810
315.000	1.2730	.5340	.5870	-.2950	-.2030	-.0180	-.0180						.3040	.2920	.1520

X/LS	.9870
PHI	
.000	.3280
45.000	.4800
90.000	.5380
135.000	.1720
180.000	.1630
225.000	.1190
270.000	.1870
315.000	.4180

MACH (6) = 1.248 BETAT (7) = 6.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8249	.8817	.9044	.9388
PHI															
.000	1.2510	.4700	.4430	-.3890	-.0980	-.0920	-.1470	-.1040	-.0430	-.0570	.0090	.0110	.4970	.8510	.8090
45.000	1.2510	.2100	.2190	-.4680	-.3310	-.2630							.2700	.4080	.3850
90.000	1.2510	.0000	.1580	-.4940	-.4140	-.2730	-.0990	-.0520	-.1040	-.0170	.0650	-.0420	.2790	.2870	.2070
135.000	1.2510	.0100	.1400	-.4920	-.3920	-.1260							.2700	.3810	.2350
180.000	1.2510	.0630	.1210	-.4890	-.4260	-.1160	-.0230	.0140	-.0990	.1001	.1270	-.1420	.2520	.3980	.1910
225.000	1.2510	.0580	.0250	-.5930	-.5490	-.2650	-.1350						.1490	.0720	-.0180
270.000	1.2510	.2520	.4900	-.2690	-.5850	-.4230	-.1570	-.0360			.0330	-.1330	.0910	.0840	.0210
315.000	1.2510	.5320	.6000	-.2700	-.1720	.0080	-.0290						.3290	.3580	.1130

X/LS	.9870
PHI	
.000	.3880
45.000	.5060
90.000	.3110
135.000	.1900
180.000	.1580
225.000	.0980
270.000	.0950
315.000	.3020

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-70? IA9 ORA + S3 + T9 SRN BOOSTER (RUN311)

MACH (A) = 1.247 BETAT (B) = 8.290

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8917	.9044	.9386
PHI															
.000	1.2310	.4830	.4240	-.3940	-.1010	-.0980	-.1750	-.1270	.0070	-.0500	-.0301	-.0040	.5210	.8780	.8080
45.000	1.2310	.1780	.1770	-.4880	-.3420	-.3010							.2580	.3750	.3325
90.000	1.2310	-.0340	.1750	-.5020	-.4250	-.2490	-.1240	-.0940	-.0790	-.0510	.0350	-.0790	.2710	.2950	.2980
135.000	1.2310	.0180	.1290	-.4820	-.3990	-.0970							.2950	.3740	.2330
180.000	1.2310	.0790	.1120	-.4830	-.4330	-.1140	-.0550	-.0130	-.0800	.0750	.0870	-.1790	.1970	.3290	.1220
225.000	1.2310	.1000	.0820	-.5880	-.5440	-.2240	-.1580						.1020	.0170	-.0490
270.000	1.2310	.3110	.4830	-.2680	-.5710	-.4250	-.2180	-.0570			.0080	-.1640	.0140	[illegible]	-.5840
315.000	1.2310	.5810	.5920	-.2670	-.1430	.0190	-.0490						.3990	.[illegible]	.0420

X/LS	.9670
PHI	
.000	.4120
45.000	.5110
90.000	.2900
135.000	.1420
180.000	.1530
225.000	.0820
270.000	.0100
315.000	.5100

AMES 11-FT TA9 OPA + S3 + T9 SRM BOOSTER (RBM512) (27 APR 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.0320 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .000
RUDDER = -5.000 ELEVON = .000
RUDVLR = .000

MACH (1) = 1.101 BETAT (1) = -8.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2480	.2530	.0720	-.6970	-.6030	-.3120	-.1870	-.1780	-.2180	-.0800	-.1060	-.3110	.0420	.0130	-.0720
45.000	1.2480	.2620	.1130	-.6770	-.5190	-.3590							-.0910	.1890	.0720
90.000	1.2480	.4270	.1980	-.6180	-.3400	-.1490	-.2710	-.3810	-.3280	-.1410	-.2770	-.3450	.0630	.5290	.3720
135.000	1.2480	.6240	.4170	-.5460	-.1780	.0820							.2110	.7820	.5110
180.000	1.2480	.6930	.4670	-.5160	-.0190	.1940	.1210	-.0460	-.0330	.2110	-.0130	-.3990	.1570	.8370	.3810
225.000	1.2480	.6080	.5230	-.4790	-.2830	.1890	.1350						.0030	.1430	-.0780
270.000	1.2480	.3820	.3460	-.4800	-.7970	-.4840	-.1020	-.1870			-.1870	-.2980	-.1080	-.1310	-.0770
315.000	1.2480	.2580	-.0710	-.7370	-.8160	-.3730	-.0750						-.0560	-.0430	.0210

X/LS	.9870
PHI	
.000	.0410
45.000	-.0600
90.000	-.0220
135.000	.2230
180.000	.3650
225.000	.1810
270.000	.0220
315.000	.0130

MACH (1) = 1.100 BETAT (2) = -1.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2330	.2190	.0680	-.6920	-.6030	-.2160	-.1220	-.1720	-.2580	-.1590	-.1010	-.2870	.0490	.0910	.0210
45.000	1.2330	.2230	.0630	-.6790	-.5450	-.3460							-.0840	.1390	.1130
90.000	1.2330	.3420	.1030	-.6480	-.4060	-.2220	-.3410	-.2980	-.3570	-.1530	-.3030	-.3700	.0310	.4930	.3410
135.000	1.2330	.5360	.3620	-.5760	-.1900	-.0080							.1630	.8990	.4540
180.000	1.2330	.6960	.4680	-.4940	.0130	.1490	.0495	-.1000	-.1150	.1470	-.0880	-.3830	.1780	.9770	.3770
225.000	1.2330	.6270	.5300	-.4550	-.2330	.1670	.0700						.0670	.2790	-.0920
270.000	1.2330	.3570	.3190	-.4930	-.7750	-.4370	-.2250	-.1990			-.0710	-.2490	-.1120	-.0760	-.0990
315.000	1.2330	.2140	-.1030	-.5100	-.7560	-.3240	-.1850						.0530	.0810	.0840

X/LS	.9870

AMES 11-7ft IA9 CRA + 33 + T9 SRM BOOSTER (RUN312)

MACH (1) = 1.100 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.1290
45.000	.0180
90.000	.0360
135.000	.2050
180.000	.3140
225.000	.1790
270.000	.0360
315.000	.0950

MACH (1) = 1.097 BETAT (3) = .080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0541	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.9017	.9044	.9368
PHI															
.000	1.2110	.2000	.0770	-.0840	-.3090	-.2260	-.0940	-.1290	-.1300	-.0180	-.0940	-.3500	.1290	.1240	.1250
													.0410	.0800	.1490
45.000	1.2110	.2050	.0750	-.0770	-.3520	-.3250									
90.000	1.2110	.2780	.0890	-.0780	-.4410	-.2890	-.4090	-.3470	-.3480	-.1880	-.2540	-.2870	.0340	.3720	.3080
													.1350	.3910	.3870
135.000	1.2110	.4980	.2980	-.3990	-.1780	-.1120									
180.000	1.2110	.7040	.4880	-.4840	-.0080	.0980	-.0280	-.2020	-.1980	.0700	-.1950	-.3780	.1940	.4950	.3120
													.0800	-.0430	-.1280
225.000	1.2110	.6380	.5740	-.3850	-.1140	.1490	.0700								
270.000	1.2110	.3390	.2700	-.5040	-.7190	-.5190	-.0830	-.1340			-.0590	-.2480	-.1620	-.1220	-.1270
315.000	1.2110	.1870	-.1130	-.8060	-.7880	-.5450	-.0430						.1420	.1090	-.0280

X/LS .9670

PHI	
.000	.1780
45.000	.0780
90.000	.0880
135.000	.1880
180.000	.2840
225.000	.1580
270.000	-.0160
315.000	.1930

AMES 11-7ft IA9 ORA + S3 + T9 SRM BOOSTER (RBMS12)

MACH (1) = 1.099 BETAT (4) = 4.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1840	.1210	.0780	-.6750	-.5710	-.1470	-.0850	-.0800	-.1110	.0080	-.0370	-.2700	.4390	.4990	.3080
45.000	1.1840	.1330	.0780	-.6750	-.5600	-.2980							.1400	.2950	.1970
90.000	1.1840	.1910	.0880	-.6930	-.4580	-.4010	-.3040	-.3370	-.2580	-.0320	-.1450	-.0700	.0530	.1450	.2320
135.000	1.1840	.4010	.2170	-.6360	-.2440	-.2620							.1090	.4990	.2980
180.000	1.1840	.6350	.4680	-.4390	-.0120	.0620	-.1030	-.3180	-.2300	.0110	-.2250	-.3680	.2770	.4240	.2180
225.000	1.1840	.6090	.6480	-.3040	.1060	.1820	.0320						.0820	-.0820	-.1260
270.000	1.1840	.1980	.2690	-.5030	-.5100	-.5230	-.1480	-.1510			-.0990	-.2390	-.1550	-.1310	-.1100
315.000	1.1840	.0690	-.0870	-.7980	-.7610	-.5440	-.1700						.1000	.1590	-.0230

X/LS	.9670
PHI	
.000	.2170
45.000	.3050
90.000	.1350
135.000	.1730
180.000	.2080
225.000	.1290
270.000	-.1100
315.000	.2080

MACH (1) = 1.105 BETAT (5) = 8.300

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1810	.0860	.0860	-.6860	-.5390	-.1200	-.1030	-.0400	-.1120	.0270	-.0820	-.3240	.4490	.5430	.4380
45.000	1.1810	.1100	.0860	-.6860	-.5490	-.2310							.4040	.3910	.2490
90.000	1.1810	.1360	.0840	-.6940	-.4470	-.4570	-.2480	-.3300	-.2980	.0100	-.1380	-.2590	.1030	.2290	.2010
135.000	1.1810	.3340	.1290	-.6870	-.3290	-.5060							.0590	.2390	.2140
180.000	1.1810	.6420	.4480	-.4370	-.0620	-.2940	-.1380	-.4000	-.1470	.0150	-.2230	-.3210	.3390	.1540	.0730
225.000	1.1810	.6240	.6880	-.2430	.1080	-.1840	.0360						.0380	-.2130	-.1930
270.000	1.1810	.1660	.2400	-.4550	-.5160	-.6790	-.4840	-.1770			-.1010	-.2910	-.1840	-.1930	-.0780
315.000	1.1810	.1080	-.0790	-.7790	-.7370	-.5800	-.1040						.1300	.1880	.2130

X/LS	.9670
PHI	
.000	.3100
45.000	.2320
90.000	.1390
135.000	.1210
180.000	.1400

AMES 11-707 IA9 ORA + S3 + T9 SRN BOOSTER (RUN812)

MACH (1) = 1.105 BETAT (5) = 0.900

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.0820
270.000	-.1220
315.000	.2310

MACH (2) = 1.250 BETAT (5) = -0.125

SECTION (2)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0041	.0087	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3470	.2540	.1080	-.4900	-.4380	-.4280	-.2720	-.2890	-.4870	-.2180	-.0700	-.2590	.0310	.0460	.0540
45.000	1.3470	.2410	.1450	-.4880	-.3830	-.3020							-.0300	.0700	.1190
90.000	1.3470	.3870	.1380	-.4140	-.2470	-.1250	-.1610	-.2850	-.4060	-.2200	-.2470	-.2900	.0540	.3380	.4120
135.000	1.3470	.3830	.3080	-.3580	-.1300	.0800							.0530	.3290	.8010
180.000	1.3470	.6480	.5390	-.3990	-.0690	.1980	.1920	.0930	-.0770	-.0480	.0820	-.3280	.2900	.2790	.9930
225.000	1.3470	.5080	.8020	-.3080	-.2180	.2280	.1920						-.0180	.0760	.1000
270.000	1.3470	.3990	.4970	-.2830	-.6180	-.3390	-.5300	-.0800			-.1540	-.2730	-.0890	-.1210	.0840
315.000	1.3470	.3820	.0220	-.5980	-.6830	-.5900	-.1040						-.0340	-.0890	.2190

X/LS .9870

PHI	
.000	.0520
45.000	.0080
90.000	.0560
135.000	.2780
180.000	.4410
225.000	.2810
270.000	.0890
315.000	.0450

MACH (2) = 1.251 BETAT (2) = -4.050

SECTION (2)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0041	.0087	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3250	.1620	.1250	-.4820	-.4390	-.3580	-.1740	-.1790	-.2590	-.3140	-.0770	-.2560	.0330	.0300	.0190
45.000	1.3250	.1020	.1230	-.4720	-.4010	-.3040							-.0380	.0160	.1787
90.000	1.3250	.2340	.1700	-.4390	-.3080	-.1980	-.2280	-.3430	-.4000	-.2900	-.2329	-.2800	-.0250	.1830	.3690
135.000	1.3250	.4020	.4480	-.3770	-.1870	-.0380							.0310	.2700	.5840
180.000	1.3250	.6080	.5430	-.3280	-.0080	.0730	.1830	-.0035	-.1580	-.1010	-.0040	-.3310	.0490	.2880	.5881
225.000	1.3250	.5860	.8900	-.2780	-.1830	.0970	.2140						.0490	.1750	.3140

AMES 11-7?7 IA9 ORA + S3 + T9 SRM BOOSTER (RBNS12)

MACH (2) = 1.251 BETAY (2) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0006	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3250	.3410	.4780	-.2840	-.6020	-.3950	-.3050	-.1020			-.0290	-.2390	-.0780	-.1840	-.0170
315.000	1.3250	.2330	-.0260	-.8150	-.6940	-.5760	-.1750						.0330	.0840	.0300

X/LS	.9670
PHI	
.000	.1630
45.000	.0470
90.000	.0840
135.000	.2620
180.000	.3950
225.000	.2430
270.000	-.0470
315.000	.0750

MACH (2) = 1.248 BETAY (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2930	.1140	.1280	-.4920	-.4400	-.3[illegible]0	-.0780	-.1070	-.1220	-.0590	-.0320	-.2870	.1110	.0840	.0400
45.000	1.2930	.0300	.1570	-.4820	-.4220	-.3000							.0010	.0410	.0880
90.000	1.2930	.1650	.1410	-.4700	-.3600	-.2710	-.3000	-.4320	-.3430	-.1940	-.2170	-.2490	-.0060	.0780	.3170
135.000	1.2930	.4120	.3690	-.4110	-.2010	-.1490							.0180	.1860	.4900
180.000	1.2930	.6030	.5330	-.3340	.0260	-.0120	.1050	-.1170	-.2440	-.1170	-.0860	-.2990	.0040	.3800	.3880
225.000	1.2930	.5990	.6470	-.2370	-.1110	.0240	.1890						.0920	.0710	-.0820
270.000	1.2930	.3290	.4370	-.2980	-.5790	-.4330	-.3580	-.1230			-.0540	-.2580	-.1630	-.1290	-.1060
315.000	1.2930	.1630	-.0620	-.8320	-.7130	-.5390	-.1150						.0380	.1180	-.0180

X/LS	.9670
PHI	
.000	.2020
45.000	.1130
90.000	.1120
135.000	.2380
180.000	.3240
225.000	.1850
270.000	-.0600
315.000	.0310

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMS12)

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7113	.8248	.8817	.9044	.9308
PHI															
.000	1.2620	.0330	.0760	-.5120	-.4470	-.2 0	-.0330	-.0830	-.0800	-.0590	-.0210	-.2820	.2910	.4820	.6010
45.000	1.2620	.0860	.0770	-.4950	-.42	10							.1530	.1780	.2590
90.000	1.2620	.1080	.0930	-.5090	-.4120	-.3300	-.3420	-.2870	-.2810	-.1040	-.1370	-.1760	.0490	.0950	.2400
135.000	1.2620	.2820	.2720	-.4800	-.2190	-.2780							.0810	.3130	.3840
180.000	1.2620	.5310	.5020	-.3250	.0780	-.1000	.0440	-.1980	-.3390	.0160	-.1690	-.2580	.0990	.3750	.3840
225.000	1.2620	.5420	.6160	-.2220	.2340	-.0400	.1360						.1190	.0470	.0010
270.000	1.2620	.2090	.4240	-.3000	-.3500	-.4660	-.3740	-.1430			-.0970	-.2280	-.1070	-.0850	-.0850
315.000	1.2620	-.0010	-.0500	-.6290	-.6850	-.5200	-.0900						.0730	.2130	-.0100

X/LS .9670

PHI	
.000	.2130
45.000	.3480
90.000	.1910
135.000	.2340
180.000	.2520
225.000	.1640
270.000	-.0890
315.000	.0710

MACH (2) = 1.247 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7113	.8248	.8817	.9044	.9308
PHI															
.000	1.2110	-.0300	.0580	-.5130	-.4370	-.1410	-.1080	-.0360	-.0430	-.0890	-.0190	-.3100	.1930	.6270	.4940
45.000	1.2110	.0390	.0880	-.5010	-.4220	-.2240							.2090	.5120	.3130
90.000	1.2110	.0520	.0840	-.5370	-.4350	-.3820	-.1780	-.2790	-.3020	-.0730	-.1190	-.2400	.1090	.1790	.2080
135.000	1.2110	.3440	.1980	-.4880	-.2320	-.3950							.0120	.1690	.2830
180.000	1.2110	.4210	.5310	-.2910	.0680	-.1560	-.0040	-.2550	-.4340	.0550	-.2200	-.2480	.2480	.2550	.2820
225.000	1.2110	.4970	.5580	-.1630	.2500	-.0650	.1320						.0970	-.1070	-.0440
270.000	1.2110	.1310	.3900	-.3030	-.2950	-.4800	-.3370	-.1780			-.0840	-.2680	-.1350	-.1140	-.1350
315.000	1.2110	-.1330	-.0090	-.5940	-.5530	-.4980	-.1260						.0230	.2430	-.0840

X/LS .9670

PHI	
.000	.2060
45.000	.3990
90.000	.2550
135.000	.1710
0.000	.1780

AMES 11-70? IA9 OEA + 53 + T9 SRM BOOSTER (RBMS12)

MACH (2) = 1.247 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.0700
270.000	-.1130
315.000	.0270

AMES 11-707 IA9 CBA + S3 + T9 SRM BOOSTER (RBM313) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .900
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.102 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2750	.2840	.1440	-.6830	-.5710	-.3930	-.1010	-.1360	-.1620	-.0760	-.0610	-.2720	.0490	-.0090	-.0500
45.000	1.2750	.3090	.1110	-.6520	-.4880	-.2970							-.0380	.2080	.1250
90.000	1.2750	.4550	.1620	-.6010	-.3290	-.0970	-.2040	-.1870	-.2720	-.0760	-.2090	-.3190	.0990	.5440	.3890
135.000	1.2750	.6040	.4110	-.5510	-.2090	.1050							.2070	.7490	.5050
180.000	1.2750	.6480	.4350	-.5390	-.1180	.1980	.1140	-.0400	-.0290	.2210	.0150	-.3920	.1420	.6360	.5040
225.000	1.2750	.5860	.4950	-.5060	-.3660	.1920	.1130						.0020	.1480	.0290
270.000	1.2750	.4270	.4110	-.4640	-.6230	-.4700	-.0840	-.1790			-.1210	-.2900	-.1010	-.0780	-.0300
315.000	1.2750	.3590	.0110	-.7600	-.8300	-.3520	-.1470						-.0050	-.0080	.0430

X/LS	.9670
PHI	
.000	.0480
45.000	-.0940
90.000	.0300
135.000	.2490
180.000	.3810
225.000	.1810
270.000	-.0880
315.000	.0480

MACH (1) = 1.098 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2720	.2620	.1450	-.6690	-.5650	-.2620	-.0290	-.1130	-.1620	-.0840	-.0680	-.2220	.0350	.0390	.0540
45.000	1.2720	.2790	.1240	-.6530	-.5070	-.2890							.0090	.2250	.1870
90.000	1.2720	.3850	.1620	-.6270	-.3920	-.1530	-.2160	-.1900	-.2940	-.0880	-.2130	-.3250	.1010	.4980	.3740
135.000	1.2720	.5480	.3610	-.5770	-.2500	.0230							.1990	.6740	.4570
180.000	1.2720	.6370	.4340	-.5290	-.0880	.1500	.0390	-.0900	-.1250	.1590	-.0620	-.3450	.2080	.5810	.4570
225.000	1.2720	.3930	.5110	-.4770	-.3160	.1600	.0690						.0890	.0970	-.0140
270.000	1.2720	.4190	.4010	-.4660	-.6090	-.4710	-.1190	-.1820			-.0570	-.2340	-.1060	-.0770	-.0380
315.000	1.2720	.3100	.0090	-.7570	-.7860	-.3610	-.1520						.0860	.0640	.0680

X/	.9670

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 O2A + S3 + T9 SRM BOOSTER (RBMS13)

MACH (1) = 1.098 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.0780
45.000	.0380
90.000	.1060
135.000	.2420
180.000	.3200
225.000	.1830
270.000	-.0680
315.000	.0930

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2530	.2120	.1730	-.6540	-.5530	-.1750	-.0230	-.0630	-.1140	-.0220	-.0400	-.2500	.1280	.1580	.1750
													.0830	.1730	.2480
45.000	1.2530	.2270	.1300	-.6500	-.5170	-.2630							.1180	.3850	.3520
90.000	1.2530	.3060	.1520	-.6450	-.4320	-.2490	-.1840	-.2420	-.2630	-.0640	-.1930	-.2810	.1680	.5700	.4080
135.000	1.2530	.4580	.3070	-.5960	-.2430	-.1520							.1770	.4950	.4070
180.000	1.2530	.5980	.4410	-.5150	-.0600	.0410	-.0010	-.1770	-.2390	.0970	-.1770	-.3550	.0720	.0280	-.0170
225.000	1.2530	.5650	.5440	-.4290	-.2280	.1090	.0490						.1430	.1080	.0490
270.000	1.2530	.3360	.3870	-.4670	-.7560	-.5730	-.1970	-.1550			-.0800	-.2310	-.1350	-.0580	-.0800
315.000	1.2530	.2450	.0120	-.7500	-.8040	-.3400	-.1360								

X/LS .9670

PHI	
.000	.1970
45.000	.1210
90.000	.1660
135.000	.2300
180.000	.2790
225.000	.1600
270.000	-.0640
315.000	.0630

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS13)

MACH (1) = 1.097 BETAT (4) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2190	.1190	.0870	-.8350	-.5400	-.1090	-.0520	-.0460	-.0910	.0120	-.0170	-.2390	.4180	.4580	.3970
45.000	1.2190	.1610	.1390	-.8350	-.5270	-.2330							.1890	.2600	.2440
90.000	1.2190	.2140	.1400	-.6880	-.4750	-.3140	-.1590	-.2630	-.2280	-.0140	-.1080	-.0580	.0850	.1880	.3000
135.000	1.2190	.3550	.2450	-.8280	-.2520	-.3220							.1360	.4580	.3290
180.000	1.2190	.5380	.4530	-.4900	-.0080	-.2120	-.0730	-.2730	-.3370	.0310	-.1820	-.3170	.2390	.4680	.3310
225.000	1.2190	.5190	.5520	-.3920	.0670	-.1730	.0270						.1300	.0180	-.0230
270.000	1.2190	.2200	.3830	-.4890	-.4820	-.6630	-.3200	-.1800			-.0910	-.2520	-.1030	-.0610	-.0700
315.000	1.2190	.1220	.0840	-.7230	-.7380	-.2640	-.1650						.1310	.1990	.0110

X/LS	.9670
PHI	
.000	.2420
45.000	.3140
90.000	.1880
135.000	.2050
180.000	.2280
225.000	.1220
270.000	-.1170
315.000	.0040

MACH (1) = 1.102 BETAT (5) = 6.290

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2420	.0480	.0040	-.6980	-.5430	-.0900	-.0730	-.0230	-.0920	.0820	-.0090	-.2950	.4540	.5550	.4460
45.000	1.2420	.1150	.1240	-.6370	-.5390	-.1540							.4780	.5070	.3470
90.000	1.2420	.1810	.1240	-.6880	-.5010	-.3620	-.1470	-.2900	-.2620	.0580	-.0940	-.2640	.1740	.2710	.2180
135.000	1.2420	.2840	.1850	-.6600	-.3100	-.4800							.1100	.2810	.2350
180.000	1.2420	.5030	.4830	-.4760	-.0720	-.3020	-.1450	-.3580	-.0720	.0380	-.1970	-.2810	.3170	.1890	.2310
225.000	1.2420	.4780	.6480	-.2880	.0800	-.2070	.0230						.0900	-.1780	-.1090
270.000	1.2420	.1430	.3410	-.4670	-.5060	-.6380	-.5800	-.2150			-.0810	-.2780	-.1130	-.1250	-.1930
315.000	1.2420	.0260	.0770	-.7080	-.6110	-.2480	-.1240						.1020	.1870	-.0940

X/LS	.9670
PHI	
.000	.2120
45.000	.3370
90.000	.2300
135.000	.1470
180.000	.1480

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM313)

MACH (1) = 1.102 BETAT (1) = 8.290

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9675

PHI	
225.000	.0750
270.000	-.1480
315.000	-.0980

MACH (2) = 1.245 BETAT (1) = -8.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3630	.2790	.3330	-.4780	-.4070	-.4070	-.1840	-.1340	-.1510	-.1350	-.0190	-.2010	.0440	.0600	.0200
													.0230	.2000	.1880
45.000	1.3630	.2770	.2000	-.4520	-.3600	-.2630							.0790	.4200	.4320
90.000	1.3630	.4090	.2570	-.4080	-.2350	-.1060	-.0900	-.1910	-.2990	-.1340	-.1430	-.2320	.1050	.5760	.5780
135.000	1.3630	.5470	.4850	-.3710	-.1670	.0260							.0220	.3580	.5800
180.000	1.3630	.5820	.4920	-.3710	-.1410	.0980	.1950	.0920	-.0830	-.0280	.1050	-.3140	.0040	.1190	.1110
225.000	1.3630	.5560	.3540	-.3470	-.2990	.1950	.1910						-.0640	-.0880	.1070
270.000	1.3630	.4480	.5610	-.2620	-.6470	-.3530	-.3520	-.0460			-.1550	-.2580	.0170	.0070	.0470
315.000	1.3630	.4480	.1120	-.5560	-.6450	-.4710	-.1870								

X/LS .9675

PHI	
.000	.0760
45.000	.0050
90.000	.1070
135.000	.3110
180.000	.4360
225.000	.2840
270.000	.0170
315.000	.0940

MACH (2) = 1.251 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3470	.1650	.2490	-.4460	-.4150	-.4010	-.0820	-.0890	-.1460	-.1570	-.0270	-.2050	.0340	.0500	.0340
													.0270	.1530	.1750
45.000	1.3470	.1290	.1810	-.4460	-.3680	-.2600							.0530	.2840	.3980
90.000	1.3470	.2730	.2320	-.4180	-.2870	-.1530	-.1650	-.2680	-.2400	-.1930	-.1360	-.2280	.0860	.3440	.5480
135.000	1.3470	.4420	.4420	-.3770	-.1900	-.0300							.0860	.3060	.5520
180.000	1.3470	.5390	.5090	-.3450	-.0890	.0400	.1640	.0070	-.1570	-.0800	.0350	-.3160	.0540	.1650	.0150
225.000	1.3470	.5300	.3940	-.3080	-.2320	.0780	.2230								

AMES 11-707 IA9 OEA + S3 + T9 SRN BOOSTER (RBMS13)

MACH (2) = 1.251 BETAT (2) = -4.060

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3470	.3870	.3520	-.2360	-.6220	-.3930	-.1150	-.1050			-.0180	-.2210	-.0620	-.1020	.0060
315.000	1.3470	.3870	.0820	-.5620	-.6510	-.4870	-.1610						.0950	.0700	.0570

X/LS	.9670
PHI	
.000	.1250
45.000	.0530
90.000	.1160
135.000	.2830
180.000	.3920
225.000	.2490
270.000	.0090
315.000	.1130

MACH (2) = 1.246 BETAT (3) = .020

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3180	.1340	.1640	-.4780	-.4100	-.3950	-.0300	-.0350	-.1180	-.0780	.0030	-.2610	.1480		.1650
45.000	1.3180	.0890	.1640	-.4590	-.3870	-.2530							.0280	.1[illegible]	.1890
90.000	1.3180	.1760	.1900	-.4510	-.3370	-.2120	-.2180	-.1870	-.2850	-.1380	-.1510	-.2180	.0920	.1970	.3520
135.000	1.3180	.3630	.3780	-.4060	-.2290	-.1200							.0700	.2490	.4870
180.000	1.3180	.5170	.5050	-.3490	-.0500	-.0210	.1270	-.1010	-.2390	-.0680	-.0570	-.2440	.0520	.2940	.4870
225.000	1.3180	.5250	.[illegible]150	-.2930	-.1740	.0150	.1960						.0600	.0960	-.0500
270.000	1.3180	.3320	.5170	-.2710	-.6010	-.4330	-.2660	-.1430			-.0400	-.2150	-.1160	-.0900	-.0720
315.000	1.3180	.2910	.0580	-.5750	-.6650	-.3820	-.1500						.0650	.1210	.0300

X/LS	.9670
PHI	
.000	.1920
45.000	.1520
90.000	.1970
135.000	.2750
180.000	.3370
225.000	.2030
270.000	-.0320
315.000	.0710

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS13)

MACH (2) = 1.245 BETAT (4) = 4.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2850	.0830	.0850	-.4900	-.4300	-.3050	-.0410	-.0570	-.0570	-.0510	-.0010	-.2280	.2350	.4720	.3950
45.000	1.2850	.1010	.0930	-.4770	-.3910	-.2260							.1960	.2230	.2460
90.000	1.2850	.1100	.1490	-.4820	-.3870	-.2430	-.1890	-.1800	-.2140	-.0500	-.0480	-.1880	.0830	.1600	.2900
135.000	1.2850	.2760	.2770	-.4520	-.2630	-.2210							.1190	.2770	.4130
180.000	1.2850	.4870	.4610	-.3690	-.0420	-.0940	.0520	-.1700	-.2930	.0130	-.1300	-.2180	.0990	.5010	.4130
225.000	1.2850	.5200	.5860	-.2750	-.1040	-.0400	.1290						.1320	.0850	-.0070
270.000	1.2850	.2770	.5010	-.2770	-.5840	-.4640	-.3000	-.1760			-.0520	-.2260	-.0930	-.0520	-.0460
315.000	1.2850	.1480	.0520	-.5780	-.6510	-.3570	-.1390						.0780	.2380	.0230

X/LS	.9870
PHI	
.000	.2380
45.000	.3460
90.000	.2130
135.000	.2510
180.000	.2830
225.000	.1570
270.000	-.0360
315.000	.0840

MACH (2) = 1.247 BETAT (5) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2480	-.0010	-.0150	-.4810	-.4210	-.1430	-.0920	-.0410	-.0140	-.0410	-.0030	-.2780	.2060	.5940	.5090
45.000	1.2480	.0860	.0950	-.4780	-.3960	-.1860							.2360	.5490	.3890
90.000	1.2480	.0840	.1160	-.5040	-.4070	-.2890	-.1020	-.1850	-.2260	-.0410	-.0620	-.1930	.1350	.1930	.2820
135.000	1.2480	.1580	.2120	-.4810	-.2580	-.3540							.0170	.1280	.3080
180.000	1.2480	.3640	.4870	-.3240	.0570	-.1680	.0080	-.2370	-.3700	.0460	-.1630	-.2470	.1510	.3390	.3080
225.000	1.2480	.4410	.5650	-.2480	.2060	-.0890	.1230						.1210	-.0610	-.1290
270.000	1.2480	.1740	.4710	-.2910	-.2850	-.4860	-.2130	-.2220			-.0650	-.2590	-.1110	-.0930	-.1450
315.000	1.2480	.1750	.0890	-.5440	-.5780	-.2910	-.1200						.0130	.2230	-.0460

X/LS	.9870
PHI	
.000	.2100
45.000	.4090
90.000	.3260
135.000	.2290
180.000	.2290

AMES 11-707 IA9 02A + S3 + T9 SRM BOOSTER (RBMS13)

MACH (2) = 1.247 BETAT (5) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0715
270.000	-.1160
315.000	.0780

AMES 11-70? IA9 02A + S3 + T9 SRM BOOSTER (RBNS14) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .000
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.098 BETAT (1) = -8.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3050	.3390	.1720	-.6660	-.5340	-.3650	.0060	-.0560	-.1210	-.0090	-.0270	-.2630	.0000	.0840	.0490
45.000	1.3050	.3770	.2250	-.6290	-.4470	-.2580							.0690	.3190	.2200
90.000	1.3050	.4930	.2660	-.5880	-.3290	-.0640	-.1030	-.0610	-.1620	.0410	-.0750	-.2630	.1880	.5690	.4240
135.000	1.3050	.5870	.3900	-.5690	-.2730	.1150							.2510	.7210	.4930
180.000	1.3050	.5740	.3810	-.5720	-.2440	.2030	.1180	-.0210	-.0590	.2410	.0750	-.4220	.1460	.6100	.3840
225.000	1.3050	.5520	.4340	-.5560	-.4750	.2030	.1030						.0170	.1800	.0510
270.000	1.3050	.4740	.5030	-.4310	-.8590	-.4250	-.2380	-.2370			-.0600	-.2800	-.0350	.0020	.0480
315.000	1.3050	.3720	.1250	-.7170	-.7790	-.2990	.0340						.0590	.0520	.1180

X/LS	.9670
PHI	
.000	.0920
45.000	.0380
90.000	.1230
135.000	.2850
180.000	.3520
225.000	.1900
270.000	.1200
315.000	.0810

MACH (1) = 1.101 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2930	.3110	.1770	-.6460	-.5260	-.2800	.0300	-.0360	-.0980	-.0430	-.0410	-.2060	.0340	.1280	.1710
45.000	1.2930	.3310	.2180	-.6320	-.4750	-.2500							.1060	.3160	.2490
90.000	1.2930	.4190	.2400	-.6110	-.3860	-.1570	-.0630	-.1010	-.2040	-.0040	-.1190	-.2730	.1610	.4900	.4140
135.000	1.2930	.5160	.3530	-.5840	-.3000	-.0580							.2080	.6210	.4580
180.000	1.2930	.5740	.3920	-.5570	-.2000	.0400	.0770	-.0530	-.1510	.1780	-.0200	-.3190	.2220	.5450	.4110
225.000	1.2930	.5610	.4630	-.5250	-.4160	.0890	.0740						.1170	.1340	.0010
270.000	1.2930	.4630	.4850	-.4330	-.8430	-.4690	-.3030	-.2250			-.0600	-.2140	-.0400	.0010	-.0010
315.000	1.2930	.3480	.1170	-.7130	-.7780	-.2990	.0250						.0450	.0500	.1450

X/LS	.9670

AMES 11-707 IAS OEA + 33 + 79 SRM BOOSTER (RBM314)

MACH (1) = 1.101 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
.000	.1260
45.000	.1400
90.000	.1870
135.000	.2740
180.000	.3170
225.000	.1930
270.000	.1320
315.000	.1430

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2730	.2570	.1800	-.6520	-.5270	-.2120	.0140	-.0250	-.0890	-.0270	-.0360	-.1520	.1230	.1790	.2350
45.000	1.2730	.2780	.1830	-.6570	-.4910	-.2200							.1800	.2930	.3190
90.000	1.2730	.3490	.2010	-.6320	-.4290	-.1880	-.0530	-.1570	-.2090	-.0140	-.1270	-.2500	.2010	.4100	.3860
135.000	1.2730	.4460	.3120	-.6020	-.3150	-.1520							.2030	.5390	.4080
180.000	1.2730	.5430	.3960	-.5490	-.1340	-.1090	.0230	-.1350	-.2440	.1080	-.1380	-.3300	.2150	.4670	.3400
225.000	1.2730	.5290	.4900	-.4870	-.3350	-.1150	.0500						.1130	.0770	-.0310
270.000	1.2730	.3880	.4780	-.4370	-.8060	-.5820	-.2370	-.1690			-.0810	-.2160	-.0720	.0070	-.0310
315.000	1.2730	.2770	.1220	-.7130	-.7570	-.2300	-.0600						.0610	.1470	.0940

X/LS .9870

PHI	
.000	.1710
45.000	.2030
90.000	.2210
135.000	.2550
180.000	.2770
225.000	.1820
270.000	.0400
315.000	.1060

AMES 11-7D7 IA9 O2A + S3 + T9 SRM BOOSTER (RBMS14)

MACH (1) = 1.103 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2470	.2000	.1890	-.6450	-.4970	-.1370	-.0270	-.0150	-.0800	.0130	-.0120	-.2020	.3670	.4400	.3940
45.000	1.2470	.2320	.1860	-.6400	-.4970	-.1910							.2570	.3310	.2920
90.000	1.2470	.2680	.1870	-.6470	-.4680	-.2180	-.0580	-.1760	-.2090	.0260	-.0620	-.1060	.1620	.2440	.3070
135.000	1.2470	.3570	.2550	-.6240	-.3440	-.2680							.1890	.3940	.3520
180.000	1.2470	.4830	.4030	-.5330	-.0950	-.2120	-.0300	-.2170	-.2950	.0610	-.1310	-.2900	.2240	.4390	.2700
225.000	1.2470	.4860	.4970	-.4760	-.0890	-.2050	.0060						.1510	.0700	-.0340
270.000	1.2470	.2990	.5000	-.4240	-.7550	-.6680	-.4980	-.2090			-.0820	-.2280	-.0480	-.0030	-.0380
315.000	1.2470	.1920	.1800	-.6780	-.7160	-.1690	-.0910						.1450	.1890	.0570

X/LS	.9670
PHI	
.000	.2430
45.000	.3140
90.000	.2080
135.000	.2080
180.000	.2360
225.000	.1290
270.000	.0230
315.000	.1860

MACH (1) = 1.099 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2540	.0820	.1770	-.6470	-.5140	-.1110	-.0700	-.0160	-.0840	.0170	-.0030	-.1720	.3990	.5210	.4510
45.000	1.2540	.1420	.1570	-.6350	-.5210	-.0980							.5220	.5300	.3940
90.000	1.2540	.1790	.1560	-.6670	-.5080	-.2560	-.0780	-.1700	-.2450	.0570	-.0360	-.2250	.2810	.3480	.2890
135.000	1.2540	.2450	.2010	-.6520	-.2990	-.3990							.1200	.2830	.2520
180.000	1.2540	.3890	.4160	-.5130	-.0620	-.3010	-.0980	-.3140	.0020	.0510	-.1250	-.2670	.2940	.2310	.1620
225.000	1.2540	.4080	.4820	-.4040	.0615	-.2440	.0020						.1440	-.1250	-.1220
270.000	1.2540	.1860	.4420	-.4290	-.4210	-.6790	-.4740	-.2490			-.0730	-.2520	-.0480	-.0390	-.1230
315.000	1.2540	.0750	.1890	-.6500	-.5560	-.1810	-.1470						.0870	.1930	-.0210

X/LS	.9670
PHI	
.000	.2250
45.000	.3340
90.000	.2830
135.000	.1990
180.000	.1570

AMES 11-707 IA9 OEA + 53 + T9 SRM BOOSTER (RBMS14)

MACH (1) = 1.099 BETAT (5) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0750
270.000	-.0770
315.000	.1330

MACH (2) = 1.248 BETAT (1) = -8.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3840	.3150	.2490	-.4580	-.3760	-.3740	-.0800	-.0250	-.0950	-.0820	.0120	-.1980	.0170	.0780	.0350
45.000	1.3840	.3170	.2780	-.4280	-.3170	-.2220							.0580	.2910	.2330
90.000	1.3840	.4240	.3140	-.3920	-.2250	-.0980	-.0560	-.1200	-.1220	-.0820	-.0480	-.1700	.1440	.4870	.4440
135.000	1.3840	.5020	.4870	-.3780	-.1950	-.0060							.1380	.5800	.5530
180.000	1.3840	.5180	.4490	-.3850	-.2040	.0320	.2150	.0590	-.0670	.0250	.1390	-.2870	.0190	.4050	.5520
225.000	1.3840	.5240	.5050	-.3770	-.3680	.0960	.1950						.0210	.1480	.1370
270.000	1.3840	.4810	.5210	-.2340	-.6580	-.2760	-.3460	-.0380			-.1500	-.2390	-.0340	-.0630	.1090
315.000	1.3840	.3840	.2120	-.5140	-.5960	-.3420	-.0030						.0300	.0390	.0930

X/LS .9670

PHI	
.000	.1130
45.000	.0480
90.000	.1640
135.000	.5340
180.000	.4260
225.000	.2870
270.000	.0210
315.000	.1360

MACH (2) = 1.244 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3580	.2200	.2300	-.4550	-.3690	-.3810	-.0240	-.0270	-.0950	-.0910	.0080	-.1540	.0380	.1050	.1140
45.000	1.3580	.1520	.2300	-.4360	-.3440	-.2220							.1150	.2890	.2540
90.000	1.3580	.2780	.2830	-.4160	-.2800	-.1210	-.1310	-.0900	-.1620	-.1080	-.0520	-.1600	.1400	.3880	.4070
135.000	1.3580	.3890	.4230	-.3940	-.2220	-.0330							.1320	.4270	.3180
180.000	1.3580	.4780	.4580	-.3760	-.1680	.0010	.1420	.0120	-.1320	-.0580	.0580	-.2830	.1080	.3510	.3170
225.000	1.3580	.5070	.5320	-.3530	-.3180	.0200	.1550						.0780	.1910	.1470

AMES 11-707 IA9 O2A + S3 + T9 SRM BOOSTER (RBNS14

MACH (2) = 1.244 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.9817	.9044	.9388
PHI															
270.000	1.3580	.4510	.6060	-.2380	-.6470	-.4130	-.0740	-.1440			-.0220	-.2000	-.3290	-.0840	.0330
315.000	1.3380	.3910	.1830	-.5250	-.6100	-.3700	-.0300						.1180	.0770	.0880

X/LS	.9570
PHI	
.000	.0980
45.000	.1560
90.000	.1980
135.000	.3080
180.000	.3850
225.000	.2350
270.000	.0150
315.000	.1360

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.9817	.9044	.9388
PHI															
.000	1.3380	.1530	.2160	-.4550	-.3790	-.3660	-.0030	-.0260	-.0680	-.0640	.0100	-.1940	.3720	.1510	.2080
45.000	1.3380	.0690	.2310	-.4390	-.3530	-.2250							.1170	.2430	.2810
90.000	1.3360	.1890	.2490	-.4310	-.3180	-.1620	-.1600	-.0690	-.1910	-.0910	-.0470	-.1680	.1390	.3190	.3800
135.000	1.3350	.3360	.3730	-.4090	-.2520	-.1050							.1120	.3270	.4750
180.000	1.3360	.4650	.4580	-.3710	-.1450	-.0480	.1340	-.0690	-.1930	.0240	-.0270	-.2240	.3910	.3120	.4770
225.000	1.3380	.5040	.5540	-.3310	-.2680	-.0080	.2080						.3690	.1240	.0170
270.000	1.3360	.4020	.5910	-.2420	-.6250	-.4350	-.1800	-.1890			-.0270	-.1970	-.3810	-.0690	-.0410
315.000	1.3380	.3040	.1710	-.5220	-.6040	-.3200	-.0440						.1960	.0770	.0890

X/LS	.9670
PHI	
.000	.1620
45.000	.2030
90.000	.2770
135.000	.3070
180.000	.3480
225.000	.2080
270.000	-.0290
315.000	.1180

AMES 11-FT7 IA9 OEA + S3 + T9 SRM BOOSTER (RBM514)

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3050	.1490	.1910	-.4840	-.4030	-.3200	-.0220	-.0460	-.0400	-.0520	.0030	-.1790	.2450	.4440	.4200
45.000	1.3050	.0970	.1900	-.4520	-.3650	-.1980							.3270	.3090	.3040
90.000	1.3050	.1180	.2050	-.4550	-.3550	-.1770	-.1020	-.0870	-.1740	-.0370	-.0300	-.1330	.1270	.2310	.3040
135.000	1.3050	.2600	.2980	-.4390	-.2930	-.1740							.1510	.2840	.3990
180.000	1.3050	.4290	.4320	-.3830	-.1080	-.0980	.0850	-.1350	-.2540	.0620	-.0740	-.2020	.1270	.3730	.4030
225.000	1.3050	.4940	.5570	-.3200	-.2150	-.0260	.1890						.1030	.1035	.0190
270.000	1.3050	.3480	.3750	-.2450	-.6160	-.4490	-.1310	-.3200			-.0540	-.2050	-.0620	-.0080	-.0310
315.000	1.3050	.2220	.1680	-.5230	-.5980	-.2340	-.0780						.0930	.1990	.0830

X/LS	.9675
PHI	
.000	.2500
45.000	.3700
90.000	.2670
135.000	.2540
180.000	.2690
225.000	.1750
270.000	.0210
315.000	.1250

MACH (2) = 1.290 BETAT (5) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2690	.0540	.1540	-.4760	-.3920	-.1590	-.0720	-.0350	-.0030	-.0430	.0030	-.2480	.2350	.5290	.5200
45.000	1.2690	.0980	.1530	-.4570	-.3720	-.1620							.2810	.5300	.4150
90.000	1.2690	.1150	.1540	-.4800	-.3910	-.2110	-.0580	-.1190	-.1670	-.0230	-.0280	-.1620	.1840	.2340	.2770
135.000	1.2690	.1890	.2240	-.4740	-.3040	-.3030							.0420	.1380	.3080
180.000	1.2690	.3530	.4340	-.3470	.0140	-.1590	.0030	-.1790	-.3210	.0420	-.1290	-.2310	.1070	.3700	.3080
225.000	1.2690	.4310	.5250	-.3150	.1820	-.1040	.0760						.1190	-.0250	-.0230
270.000	1.2690	.2330	.5800	-.2480	-.4700	-.4880	-.1370	-.2880			-.0650	-.2560	-.0780	-.0840	-.1980
315.000	1.2690	.0760	.1780	-.5010	-.5840	-.1790	-.0890						.0210	.2110	-.0350

X/LS	.9675
PHI	
.000	.2280
45.000	.4240
90.000	.3410
135.000	.2420
180.000	.2280

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-7X7 IA9 CRA + S3 + T9 SRM BOOSTER (R2MS14)

MACH (2) = 1.250 BETAT (5) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/L= .987

Y(1)	
225.000	.0780
270.000	-.0960
315.000	.0480

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-FOOT IA9 CEA + 33 + 79 SRM BOOSTER (RDMS15) (29 APR 79)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -6.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3170	.3850	.2630	-.6420	-.4910	-.3300	.0480	-.0190	-.0610	.0120	.0170	-.3360	.0330	.1840	.1280
													.1390	.3810	.2930
45.000	1.3170	.4300	.2220	-.6050	-.4090	-.2300							.2570	.5720	.4450
90.000	1.3170	.5100	.2780	-.5750	-.3210	-.1030	.0150	.0080	-.1150	.0960	.0280	-.2260	.2670	.6800	.4730
135.000	1.3170	.5300	.3670	-.5760	-.3100	.0280							.1590	.5780	.4720
180.000	1.3170	.5120	.3390	-.5880	-.3280	.1660	.1250	.0010	-.0780	.2570	.1610	-.4290	.0270	.1640	.1010
225.000	1.3170	.5110	.3810	-.5870	-.5480	.1760	.1070								
270.000	1.3170	.4990	.5510	-.4040	-.8580	-.2950	-.4780	-.2680			-.0210	-.2450	.0210	.0660	.0590
315.000	1.3170	.4610	.2110	-.6730	-.7190	-.2530	.0630						.0420	.0630	.1580

X/LS	.9670
PHI	
.000	.1490
45.000	.1020
90.000	.2030
135.000	.3130
180.000	.3390
225.000	.1610
270.000	-.0240
315.000	.1360

MACH (1) = 1.101 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3080	.3570	.2870	-.6280	-.4880	-.2570	.0530	-.0100	-.0620	-.0250	-.0150	-.2440	.1340	.2830	.2490
													.2220	.4080	.3420
45.000	1.3080	.3730	.2330	-.6130	-.4430	-.2150							.2590	.5040	.4280
90.000	1.3080	.4310	.2810	-.5990	-.3820	-.1270	.0670	-.0300	-.1410	.0390	-.0150	-.2420	.2630	.5800	.4480
135.000	1.3080	.4810	.3410	-.5890	-.3410	-.0820							.2450	.5190	.4500
180.000	1.3080	.5130	.3560	-.5770	-.2800	-.0300	.1020	-.0380	-.1440	.1980	.0110	-.2980	.1390	.1580	.0700
225.000	1.3080	.5250	.4120	-.5630	-.4900	-.0260	.0880						.0010	.0590	.0290
270.000	1.3080	.4980	.3420	-.4050	-.8420	-.3820	-.3060	-.2480			-.0620	-.1790	.0100	.0360	.1770
315.000	1.3080	.4880	.2110	-.6720	-.7150	-.2400	.0350								

X/LS	.9670

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 02A + S3 + T9 SRM BOOSTER (RBMS15)

MACH (1) = 1.101 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.1570
45.000	.1960
90.000	.2410
135.000	.2970
180.000	.3110
225.000	.1830
270.000	-.0080
315.000	.1380

MACH (1) = 1.103 BETAT (3) = .030

SECTION (2)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2930	.3300	.2650	-.6280	-.4770	-.1930	.0310	.0090	-.0560	-.0190	-.0080	-.1300	.1760	.2870	.3190
45.000	1.2930	.3400	.2340	-.6160	-.4570	-.1830							.2560	.3900	.3650
90.000	1.2930	.3690	.2360	-.6130	-.4220	-.1360	.0410	-.0800	-.1530	.0300	-.0480	-.2040	.2650	.4290	.4010
135.000	1.2930	.4260	.3080	-.6010	-.3630	-.1300							.2520	.4810	.4040
180.000	1.2930	.4980	.3570	-.5720	-.2290	-.1120	.0630	-.1070	-.2160	.1300	-.0650	-.3040	.252.	.4790	.4050
225.000	1.2930	.5290	.4330	-.5370	-.4370	-.0910	.0690						.1700	.1300	.0480
270.000	1.2930	.4690	.5330	-.3980	-.8150	-.4340	-.3060	-.2180			-.0810	-.1940	.0030	.0480	.0120
315.000	1.2930	.4550	.2140	-.6670	-.6940	-.1890	-.0030						.0620	.1110	.1180

X/LS .9670

PHI	
.000	.1780
45.000	.2440
90.000	.2620
135.000	.2710
180.000	.2720
225.000	.1710
270.000	-.0270
315.000	.0750

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS13)

MACH (1) = 1.097 BETAT (4) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3997	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2630	.2600	.2720	-.6240	-.4540	-.1500	-.0280	.0080	-.0740	.0130	-.0010	-.1260	.3470	.4490	.4180
45.000	1.2630	.2740	.2330	-.6150	-.4780	-.1680							.4300	.4650	.3780
90.000	1.2630	.2980	.2180	-.6320	-.4610	-.1470	.0190	-.1050	-.1810	.0610	-.0210	-.1520	.2270	.3230	.3180
135.000	1.2630	.3490	.2580	-.6220	-.3800	-.2080							.2330	.3800	.3300
180.000	1.2630	.4300	.3550	-.5580	-.2170	-.1840	.0160	-.1820	-.2640	.0740	-.0780	-.2630	.2390	.4010	.3280
225.000	1.2630	.4460	.4540	-.5120	-.3470	-.1630	.0320						.1900	.1030	.1080
270.000	1.2630	.3370	.5610	-.3090	-.7980	-.5010	-.3110	-.2130			-.0600	-.1870	.0100	.0470	.0180
315.000	1.2630	.3370	.2520	-.6350	-.6520	-.1440	-.0720						.1230	.2190	.1090

X/LS	.9870
PHI	
.000	.2590
45.000	.3210
90.000	.2730
135.000	.2090
180.000	.2080
225.000	.1240
270.000	-.0580
315.000	.0880

MACH (2) = 1.100 BETAT (3) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3997	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2410	.1350	.1580	-.6340	-.4080	-.1350	-.0870	-.0220	-.0790	-.0050	.0200	-.1050	.3310	.3490	.4790
45.000	1.2410	.1650	.1720	-.6420	-.4960	-.0880							.3790	.4080	.3880
90.000	1.2410	.1910	.1730	-.6350	-.4920	-.1750	-.0250	-.1330	-.2220	.0240	-.0020	-.1940	.3090	.3680	.2790
135.000	1.2410	.2280	.2070	-.6470	-.3710	-.3390							.1470	.2800	.2350
180.000	1.2410	.3430	.3660	-.5460	-.0560	-.2940	-.0380	-.2680	-.0350	.0730	-.0930	-.2390	.2870	.2540	.2350
225.000	1.2410	.3880	.4250	-.5180	.0480	-.2720	-.0280						.1880	-.1180	-.0610
270.000	1.2410	.2340	.5320	-.3970	-.4260	-.3820	-.3250	-.2450			-.0870	-.2400	-.0040	-.0050	-.1180
315.000	1.2410	.2370	.2730	-.6180	-.5840	-.1390	-.1260						.1230	.2470	.0930

X/LS	.9870
PHI	
.000	.2380
45.000	.3390
90.000	.2970
135.000	.1790
180.000	.1490

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS15)

MACH (1) = 1.100 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.9670
PHI	
225.000	.0350
270.000	-.1150
315.000	-.0340

MACH (2) = 1.245 BETAT (1) = -8.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3850	.3520	.4170	-.4390	-.3430	-.3420	-.0360	.0300	-.0400	-.0550	.0270	-.2270	.0300	.1380	.0840
													.0900	.3120	.2810
45.000	1.3850	.3510	.3010	-.4070	-.2850	-.1900									
90.000	1.3850	.4180	.3570	-.3820	-.2200	-.1060	-.0350	.0170	-.0550	-.0550	.0270	-.1180	.1950	.4760	.4420
													.1680	.5650	.5120
135.000	1.3850	.4460	.4310	-.3880	-.2270	-.0600									
180.000	1.3850	.4460	.3910	-.4020	-.2640	-.0610	.1950	.0540	-.0550	.1260	.1680	-.2680	.0180	.4500	.5110
													.0330	.1800	.1730
225.000	1.3850	.4800	.4350	-.4090	-.4300	.0590	.1990								
270.000	1.3850	.4830	.6480	-.2170	-.6590	-.2680	-.3190	-.1700			-.1740	-.2230	.0030	-.0200	.1130
													.0300	.0510	.1250
315.000	1.3850	.4830	.2960	-.4680	-.5460	-.2870	.0170								

X/LS	.9670
PHI	
.000	.1260
45.000	.0810
90.000	.2160
135.000	.3330
180.000	.4010
225.000	.2360
270.000	.0230
315.000	.1580

MACH (2) = 1.249 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3680	.2310	.3310	-.4340	-.3450	-.3470	.0090	.0140	-.0490	-.0630	.0220	-.1920	.0930	.2040	.1580
													.1490	.3420	.2910
45.000	1.3680	.1840	.2920	-.4130	-.3070	-.1980									
90.000	1.3680	.2600	.3260	-.3990	-.2560	-.1170	-.1070	.0170	-.0880	-.0620	.0220	-.1040	.1990	.4330	.4080
													.1380	.4300	.4890
135.000	1.3680	.3080	.4010	-.3920	-.2450	-.0530									
180.000	1.3680	.3780	.4140	-.3860	-.2260	-.0300	.0400	.0210	-.1090	-.0400	.1050	-.2810	.1130	.3400	.4890
225.000	1.3680	.4570	.4720	-.3810	-.3620	-.0590	.0350						.0900	.2170	.1050

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AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS15)

MACH (2) = 1.249 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3680	.4810	.6480	-.2140	-.6440	-.2970	-.1700	-.2620			-.0830	-.1840	.0220	-.0720	.0430
315.000	1.3680	.4800	.2790	-.4860	-.5490	-.2910	.0400						.0180	.0180	.1180

X/LS	.9870
PHI	
.000	.1260
45.000	.2190
90.000	.2430
135.000	.3220
180.000	.3700
225.000	.2480
270.000	.0310
315.000	.1490

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3480	.1290	.3050	-.4410	-.3520	-.3380	.0190	-.0070	-.0340	-.0490	.0280	-.1430	.1120	.2210	.2890
													.1890	.3220	.3350
45.000	1.3480	.1040	.2910	-.4250	-.3290	-.2050							.2000	.3890	.3890
90.000	1.3480	.1650	.2910	-.4200	-.3020	-.1370	-.1560	-.0060	-.1300	-.0500	.0100	-.1130	.1410	.3880	.4530
135.000	1.3480	.2130	.5630	-.4110	-.2660	-.0970							.1030	.3070	.4500
180.000	1.3480	.3120	.4180	-.3870	-.2080	-.0680	.1120	-.0310	-.1680	.1040	.0110	-.2490	.0780	.1540	.0380
225.000	1.3480	.4900	.5010	-.3650	-.3490	-.0840	.1840						-.0250	-.0140	.0010
270.000	1.3480	.4890	.6380	-.2220	-.6320	-.3120	-.0720	-.2880			-.0800	-.1900	.0370	.0970	.0990
315.000	1.3480	.4380	.2720	-.4790	-.5480	-.2430	.0190								

X/LS	.9870
PHI	
.000	.1770
45.000	.2780
90.000	.3230
135.000	.3390
180.000	.3440
225.000	.2100
270.000	-.0080
315.000	.1090

AMES 11-7ft IA9 OEA + S3 + T9 SRM BOOSTER (RBMS15)

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3170	.1880	.2550	-.4340	-.3660	-.2970	-.0190	-.0360	-.0320	-.0560	.0040	-.1280	.2470	.4220	.4400
45.000	1.3170	.1320	.2530	-.4430	-.3520	-.1940							.3690	.4440	.4050
90.000	1.3170	.1310	.2330	-.4450	-.3390	-.1440	-.0770	-.0240	-.1290	-.0550	.0240	-.1050	.1970	.3230	.3490
135.000	1.3170	.2410	.2940	-.4380	-.3070	-.1410							.1700	.3310	.3800
180.000	1.3170	.3670	.3870	-.4020	-.1930	-.0980	.0240	-.0840	-.2200	.0740	-.0530	-.1990	.1400	.3470	.3820
225.000	1.3170	.4310	.4950	-.3630	-.3100	-.0390	.1570						.1070	.1450	.0690
270.000	1.3170	.3530	.6300	-.2250	-.6330	-.3490	-.0520	-.3390			-.0580	-.1830	-.0210	.0340	-.0100
315.000	1.3170	.3530	.2710	-.4770	-.5370	-.1590	-.0140						.0970	.2120	.0930

X/LS	.9670
PHI	
.000	.2610
45.000	.3760
90.000	.3480
135.000	.2830
180.000	.2770
225.000	.1690
270.000	.0290
315.000	.1060

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2860	.1200	.1820	-.4580	-.3550	-.1530	-.0760	-.0310	.0020	-.0580	.0140	-.1710	.2150	.4720	.5580
45.000	1.2860	.1160	.1860	-.4550	-.3560	-.1440							.2480	.4030	.3910
90.000	1.2860	.1280	.1860	-.4580	-.3580	-.1290	-.0740	-.0500	-.1460	-.0150	.0140	-.1270	.2960	.3330	.3040
135.000	1.2860	.1660	.2390	-.4600	-.3110	-.2190							.1080	.2250	.2840
180.000	1.2860	.2970	.3850	-.3940	-.1430	-.1500	-.0100	-.1080	-.2230	.0820	-.0530	-.1970	.1390	.3260	.2340
225.000	1.2860	.3790	.4990	-.3410	-.1630	-.0930	.1490						.1050	-.0130	-.0470
270.000	1.2860	.2810	.6320	-.2160	-.6030	-.3820	-.0230	-.2930			-.0520	-.2360	-.0490	-.0310	-.1090
315.000	1.2860	.2410	.2970	-.4590	-.4930	-.0900	-.0630						.0740	.2450	.0040

X/LS	.9670
PHI	
.000	.2450
45.000	.4430
90.000	.3100
135.000	.2390
180.000	.2010

AMES 11-FDT IA9 OEA + S3 + T9 SRM BOOSTER (RBMS19)

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0610
270.000	-.0970
315.000	.0260

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS18) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3200	.4240	.2590	-.6320	-.4600	-.2950	.0800	.0050	-.0540	.0290	.0330	-.3320	.0820	.2340	.1680
													.2120	.4300	.3320
45.000	1.3200	.4670	.2720	-.5930	-.3820	-.2000							.3190	.5770	.4500
90.000	1.3200	.5130	.3150	-.5740	-.3170	-.1170	.1120	.0420	-.0780	.1180	.0910	-.1610	.3000	.6310	.4520
135.000	1.3200	.4890	.3420	-.5920	-.3440	-.0620							.1940	.5450	.4190
180.000	1.3200	.4570	.2990	-.6090	-.3880	.1110	.1430	.0090	-.0910	.2710	.2000	-.3990	.0500	.1530	.0250
225.000	1.3200	.4670	.3250	-.6190	-.6030	.1290	.1300						.0210	.0470	.0250
270.000	1.3200	.4890	.5580	-.4000	-.8490	-.1310	-.1170	-.2400			-.0400	-.2200	.0200	.0370	.1620
315.000	1.3200	.4630	.2780	-.6450	-.6690	-.1910	.0440								

X/LS	.9670
PHI	
.000	.1420
45.000	.1310
90.000	.2350
135.000	.3260
180.000	.3230
225.000	.1740
270.000	.0580
315.000	.1570

MACH (1) = 1.098 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3100	.3980	.2650	-.6240	-.4540	-.2950	.0720	.0120	-.0410	-.0180	.0070	-.1940	.2020	.3270	.2080
													.3080	.4640	.3770
45.000	1.3100	.4090	.2660	-.6040	-.4160	-.1950							.3310	.5310	.4330
90.000	1.3100	.4370	.2910	-.5970	-.3770	-.1190	.1240	.0160	-.1020	.0770	.0490	-.1730	.3030	.5820	.4340
135.000	1.3100	.4490	.3230	-.6020	-.3720	-.0910							.2590	.4950	.3740
180.000	1.3100	.4490	.3150	-.5980	-.3560	-.0400	.1380	-.0220	-.1370	.2070	.0650	-.2970	.1480	.1590	.0180
225.000	1.3100	.4730	.3540	-.6020	-.5580	-.0190	.1230						.0330	.0780	.0190
270.000	1.3100	.4840	.5590	-.3980	-.8360	-.2020	-.0720	-.1910			-.0610	-.1650	.0390	.0530	.1880
315.000	1.3100	.4820	.2770	-.6380	-.6580	-.1650	.0490								

X/LS	.9870

AMES 11-7ft IA9 OEA + S3 + T9 SRM BOOSTER (RBMS10)

MACH (1) = 1.090 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.1780
45.000	.2240
90.000	.2740
135.000	.3070
180.000	.3000
225.000	.1780
270.000	.0800
315.000	.1660

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9306
PHI															
.000	1.2920	.3570	.2620	-.6280	-.4440	-.2240	.0330	.0250	-.0470	-.0280	.0000	-.1180	.2440	.3630	.3680
45.000	1.2920	.3590	.2630	-.6170	-.4470	-.1930							.2990	.4130	.3940
90.000	1.2920	.3730	.2690	-.6180	-.4230	-.1180	.0820	-.0360	-.1220	.0320	.0190	-.1510	.3150	.4610	.3990
135.000	1.2920	.4090	.2920	-.6170	-.3970	-.1180							.2820	.4730	.3880
180.000	1.2920	.4480	.3170	-.5990	-.3360	-.1180	.0930	-.0850	-.2040	.1350	-.0100	-.2800	.2470	.4330	.3220
225.000	1.2920	.4640	.3740	-.5870	-.5220	-.0810	.0890						.1610	.1480	.0120
270.000	1.2920	.4719	.5580	-.3970	-.6420	-.1590	-.0760	-.1530			-.0910	-.1710	.0160	.0880	.0130
315.000	1.2920	.4620	.2780	-.6400	-.6660	-.1250	.0060						.0890	.1300	.1490

X/LS .9670

PHI	
.000	.2180
45.000	.2810
90.000	.2820
135.000	.2740
180.000	.2580
225.000	.1570
270.000	.0710
315.000	.1960

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS16)

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9398
PHI															
.000	1.2700	.3170	.2620	-.6230	-.4100	-.1570	-.0420	.0190	-.0660	-.0030	.0080	-.0880	.2740	.4270	.4490
45.000	1.2700	.3090	.2580	-.6220	-.4620	-.1760							.3300	.4260	.3780
90.000	1.2700	.3150	.2380	-.6280	-.4590	-.1180	.0490	-.0810	-.1600	.0750	.0080	-.1310	.2570	.3520	.3080
135.000	1.2700	.3400	.2560	-.6260	-.4090	-.1650							.2720	.3760	.3080
180.000	1.2700	.3970	.3170	-.5860	-.2910	-.1690	.0390	-.1530	-.2520	.0930	-.0830	-.2550	.2740	.3840	.2800
225.000	1.2700	.4220	.4060	-.5460	-.4560	-.1170	.0480						.1730	.1280	.0160
270.000	1.2700	.3820	.5820	-.3780	-.8070	-.1560	-.1090	-.1480			-.0470	-.1690	.0480	.0880	.0220
315.000	1.2700	.3490	.3120	-.6040	-.5950	-.1010	-.0690						.1470	.2570	.1290

X/LS	.9670
PHI	
.000	.3000
45.000	.3430
90.000	.2630
135.000	.2050
180.000	.1920
225.000	.1140
270.000	.0840
315.000	.2450

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9398
PHI															
.000	1.2320	.2330	.2550	-.6150	-.4060	-.1650	-.1060	-.0110	-.0540	-.0110	.0380	-.1030	.4550	.5830	.4770
45.000	1.2320	.2200	.1980	-.6400	-.4720	-.1090							.3330	.4040	.3520
90.000	1.2320	.2390	.1980	-.6450	-.4850	-.1070	.0090	-.0910	-.1750	.0720	.0380	-.1790	.4330	.4030	.2830
135.000	1.2320	.2510	.2080	-.6410	-.4360	-.2470							.2330	.3180	.2220
180.000	1.2320	.3140	.3210	-.5770	-.2600	-.2690	-.0010	-.2180	-.0250	.0960	-.0630	-.2390	.2300	.2820	.1630
225.000	1.2320	.3730	.4040	-.5480	-.3260	-.2270	-.0030						.1390	-.0910	-.1080
270.000	1.2320	.3160	.5850	-.3740	-.7670	-.1790	-.1110	-.1500			-.0450	-.2310	.0940	-.0020	-.1030
315.000	1.2320	.2880	.3430	-.5790	-.5300	-.1050	-.0940						.2660	.2690	.0970

X/LS	.9670
PHI	
.000	.2770
45.000	.3520
90.000	.2580
135.000	.1780
180.000	.1430

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS16)

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.0400
270.000	-.0380
315.000	.2140

MACH (2) = 1.247 BETAT (1) = -8.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3870	.3870	.3400	-.4250	-.3180	-.3120	-.0080	.0490	-.0190	-.0390	.0580	-.2190	.0580	.1990	.1300
45.000	1.3870	.3940	.3930	-.3930	-.2810	-.1800							.1570	.3490	.3220
90.000	1.3870	.4210	.3930	-.3780	-.2170	-.1170	-.0170	.0930	-.0210	-.0340	.0850	-.0620	.2490	.4780	.4480
135.000	1.3870	.4070	.4040	-.3970	-.2530	-.1030							.1760	.5340	.4880
180.000	1.3870	.4020	.3490	-.4180	-.3200	-.1550	.0930	.0830	-.0320	.2080	.2040	-.2400	.0200	.4790	.4870
225.000	1.3870	.4450	.3750	-.4390	-.4860	.0370	.0930						.0490	.1930	.2020
270.000	1.3870	.4830	.6540	-.2120	-.6520	-.1680	-.1420	-.2110			-.1250	-.2030	.0270	-.0030	.1140
315.000	1.3870	.4400	.3610	-.4400	-.4980	-.2530	.0330						.0440	.0310	.1530

X/LS .9870

PHI	
.000	.1320
45.000	.1260
90.000	.2660
135.000	.3710
180.000	.3850
225.000	.2790
270.000	.0220
315.000	.1770

MACH (2) = 1.249 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.143	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3710	.2910	.3230	-.4200	-.3280	-.3210	.0180	.0220	-.0280	-.0330	.0910	-.1710	.1380	.2610	.2210
45.000	1.3710	.2210	.3240	-.4020	-.2910	-.1820							.2030	.3810	.3330
90.000	1.3710	.2810	.3540	-.3930	-.2630	-.1280	-.0870	.0680	-.0520	-.0540	.0750	-.0620	.2350	.4430	.4080
135.000	1.3710	.2490	.3750	-.4000	-.2640	-.0790							.1660	.4780	.4610
180.000	1.3710	.3100	.3700	-.4000	-.2710	-.0780	.0330	.0380	-.0910	.0020	.1380	-.2700	.1150	.3983	.4030
225.000	1.3710	.4160	.4080	-.4120	-.4380	-.0390	.0470						.1030	.2340	.1380

AMES 11-707 IA9 COA + S3 + T9 SRM BOOSTER (RBMSI8)

MACH (2) = 1.249 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3710	.4630	.6560	-.2070	-.6410	-.1850	-.0750	-.1580			-.1440	-.1780	.0900	-.0300	.0800
315.000	1.3710	.4100	.3470	-.4410	-.5010	-.2550	.0380						.0440	.0280	.1480

X/LS	.9670
PHI	
.000	.1500
45.000	.2620
90.000	.2910
135.000	.3370
180.000	.3550
225.000	.2440
270.000	.0150
315.000	.1780

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3490	.1850	.3090	-.4270	-.3320	-.3050	.0090	-.0070	-.0160	-.0410	.0360	-.1180	.1630	.2780	.3390
45.000	1.3490	.1430	.3110	-.4160	-.3150	-.1960							.2180	.3900	.3890
90.000	1.3490	.1680	.3110	-.4150	-.2980	-.1400	-.0940	.0370	-.0900	-.0630	.0540	-.0730	.2350	.4080	.3990
135.000	1.3490	.1650	.3480	-.4140	-.2620	-.1050							.1700	.4430	.4380
180.000	1.3490	.2110	.3790	-.4030	-.2590	-.0930	.0940	-.0100	-.1520	.1390	.0340	-.2300	.1200	.3990	.4380
225.000	1.3490	.4420	.4440	-.4030	-.4070	-.0940	.1180						.1070	.1720	.1910
270.000	1.3490	.4670	.6560	-.2110	-.6300	-.1920	.0220	-.1570			-.0540	- 790	-.0140	.0180	.1380
315.000	1.3490	.4130	.3460	-.4420	-.4980	-.2020	.0150						.0510	.1510	.1240

X/LS	.9670
PHI	
.000	.1890
45.000	.3170
90.000	.3480
135.000	.3550
180.000	.3490
225.000	.2110
270.000	.0190
315.000	.1240

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMS16)

MACH (2) = 1.244 BETAT (4) = 4.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3110	.2330	.2780	-.4430	-.3400	-.2690	-.0390	-.0370	-.0220	-.0570	.0320	-.0700	.2200	.3890	.4580
													.3200	.4170	.4020
45.000	1.3110	.1900	.2780	-.4420	-.3460	-.1940							.1870	.2940	.3230
90.000	1.3110	.1290	.2340	-.4400	-.3310	-.1330	-.0580	.0030	-.0980	-.0410	.0690	-.0740	.1940	.3830	.3580
135.000	1.3110	.2190	.2840	-.4380	-.3150	-.1330							.1590	.3970	.3580
180.000	1.3110	.3180	.3480	-.4160	-.2900	-.1050	.0290	-.0520	-.1990	.0660	-.0210	-.2060	.1170	.1870	.0870
225.000	1.3110	.3920	.4400	-.3940	-.3770	-.0070	.0400						.0290	.0740	.0190
270.000	1.3110	.3690	.6470	-.2150	-.6360	-.1320	.0000	-.1800			-.0390	-.1710	.1080	.2210	.1370
315.000	1.3110	.3050	.3950	-.4410	-.4980	-.1160	-.0350								

X/LS	.9870
PHI	
.000	.2990
45.000	.3840
90.000	.3290
135.000	.2720
180.000	.2620
225.000	.1890
270.000	.0370
315.000	.1630

MACH (2) = 1.244 BETAT (5) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2830	.1680	.2580	-.4510	-.3220	-.1610	-.1020	-.0120	-.0010	-.0680	.0180	-.0730	.3290	.6000	.5440
													.2480	.3940	.3680
45.000	1.2830	.1200	.2040	-.4570	-.3620	-.1660							.3420	.3990	.3290
90.000	1.2830	.1500	.2070	-.4530	-.3470	-.1000	-.0740	.0140	-.1100	.0370	.0320	-.1060	.1470	.3080	.2870
135.000	1.2830	.1580	.2370	-.4570	-.3260	-.1760							.1380	.2890	.2840
180.000	1.2830	.2570	.3450	-.4180	-.2220	-.1480	-.0520	-.0810	-.2020	.0810	-.0320	-.1840	.0880	-.0100	-.0390
225.000	1.2830	.3400	.4900	-.3780	-.2990	-.0130	-.0380								
270.000	1.2830	.3060	.8490	-.2070	-.6090	-.1690	-.0490	-.1130			-.0580	-.2240	-.0420	-.0120	-.1180
315.000	1.2830	.2580	.3630	-.4250	-.4490	-.0480	-.1180						.1870	.2810	.2940

X/LS	.9870
PHI	
.000	.2990
45.000	.4370
90.000	.3230
135.000	.2490
180.000	.2540

TABULATED PRESSURE DATA - [illegible]

[illegible] (PSMS10)

[illegible]

DEPENDENT VARIABLE CP

[illegible]

[illegible]
[illegible]
[illegible]
[illegible]

AMES 11-707 IA9 CEA + 53 + 79 SRM BOOSTER (RDHS17) (27 APR 79)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .900
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.102 BETAT (1) = -8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3180	.4790	.4350	-.6080	-.4020	-.2590	.0800	.0280	-.0110	.0500	.0810	-.2720	.1810	.3210	.2360
													.3100	.4910	.3940
45.000	1.3180	.9080	.3090	-.5720	-.3480	-.1710									
90.000	1.3180	.4940	.3510	-.5710	-.3190	-.1430	.1470	.0760	-.0390	.1580	.1640	-.1020	.3660	.5680	.4510
													.3130	.5650	.4180
135.000	1.3180	.4290	.2990	-.5960	-.3880	-.0920									
180.000	1.3180	.3860	.2480	-.6240	-.4510	.0300	.1380	.0210	-.0730	.2880	.2390	-.3670	.2010	.5030	.4170
													.0590	.1510	.0880
225.000	1.3180	.4110	.2460	-.6540	-.6670	-.0560	.1160								
270.000	1.3180	.4890	.5440	-.4000	-.7420	-.1140	.0470	-.0680			-.0520	-.1960	.0390	.0880	.0410
													.0390	.0660	.2030
315.000	1.3180	.4690	.3430	-.6030	-.6020	-.1080	.0630								

X/LS	.9679
PHI	
.000	.1690
45.000	.1900
90.000	.2910
135.000	.3330
180.000	.2950
225.000	.1640
270.000	.0040
315.000	.2070

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3080	.4500	.3710	-.6050	-.4020	-.2800	.0550	.0400	-.0120	-.0120	.0450	-.1410	.2880	.4040	.3510
													.3630	.4990	.4230
45.000	1.3080	.4380	.3100	-.5890	-.3900	-.1870									
90.000	1.3080	.4210	.3110	-.5940	-.3820	-.1440	.1330	.0510	-.0730	.0740	.1130	-.1100	.3620	.5070	.4250
													.3160	.5210	.4050
135.000	1.3080	.3890	.2880	-.6120	-.4130	-.1180									
180.000	1.3080	.3800	.2630	-.6120	-.4310	-.0320	.1410	-.0070	-.1160	.2120	.1490	-.3130	.2400	.4570	.4080
													.1280	.1580	.0740
225.000	1.3080	.4070	.2750	-.6360	-.6440	-.0950	.1130								
270.000	1.3080	.4830	.5540	-.3970	-.8330	-.1130	.0530	-.0360			-.0770	-.1560	.0620	.1200	.0390
													.0900	.1250	.2150
315.000	1.3080	.4630	.3510	-.6010	-.5860	-.1010	.0450								

X/LS	.9679

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-70T IA9 OEA + S3 + T9 SRM BOOSTER (RBMS17)

MACH (1) = 1.534 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.2190
45.000	.2730
90.000	.3150
135.000	.3090
180.000	.2770
225.000	.1650
270.000	.0540
315.000	.1840

MACH (1) = 1.102 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2930	.4210	.3650	-.6040	-.3810	-.2280	.0290	.0400	-.0300	-.0400	.0530	-.1010	.3070	.4420	.4170
45.000	1.2930	.3790	.3040	-.6020	-.4150	-.1870							.3300	.4470	.4120
90.000	1.2930	.3570	.2820	-.6100	-.4210	-.1140	.1040	.0030	-.1050	.0260	.0900	-.1170	.3260	.4310	.3800
135.000	1.2930	.3720	.2690	-.6130	-.4230	-.1180							.3070	.4930	.3700
180.000	1.2930	.3860	.2730	-.6100	-.4070	-.0860	.1100	-.0560	-.1560	.1300	.0980	-.2650	.2690	.4030	.3700
225.000	1.2930	.4210	.3030	-.6250	-.6110	-.0320	.0960						.1680	.1410	.0940
270.000	1.2930	.4630	.5620	-.3860	-.8220	-.0290	.0410	-.0310			-.0620	-.1370	.0500	.1140	.0330
315.000	1.2930	.4620	.3580	-.5890	-.5620	-.0560	.0190						.1470	.2040	.1760

X/LS .9670

PHI	
.000	.2660
45.000	.3230
90.000	.3060
135.000	.2630
180.000	.2450
225.000	.1430
270.000	-.0120
315.000	.1490

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM317)

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2740	.3920	.3470	-.6080	-.3480	-.1780	-.0860	.0230	-.0620	-.0440	.0220	-.0560	.4180	.5370	.4810
45.000	1.2740	.3430	.3200	-.6220	-.4430	-.2090							.2390	.3410	.3890
90.000	1.2740	.3220	.2900	-.6320	-.4590	-.1150	.0560	-.0270	-.1440	.0620	.0530	-.0750	.2920	.3720	.3050
135.000	1.2740	.3220	.2390	-.6320	-.4440	-.1320							.2640	.3520	.2840
180.000	1.2740	.3430	.2710	-.6150	-.3720	-.1400	.0530	-.1270	-.2030	.0840	.0520	-.2630	.2830	.3490	.2830
225.000	1.2740	.3740	.3240	-.6030	-.5680	-.0810	.0540						.2190	.1320	.0790
270.000	1.2740	.4060	.3780	-.3790	-.8140	-.0250	-.0090	-.0590			-.0170	-.1560	.0470	.0970	.0180
315.000	1.2740	.4060	.3880	-.5600	-.5190	-.0600	-.0590						.3170	.2960	.1480

X/LS	.9670
PHI	
.000	.2880
45.000	.3680
90.000	.2880
135.000	.1940
180.000	.1730
225.000	.0900
270.000	-.0340
315.000	.1280

MACH (1) = 1.089 BETAT (5) = 8.290

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2380	.3080	.3210	-.5960	-.3440	-.1670	-.1320	-.0080	-.0280	-.0450	.0470	-.0930	.3180	.5100	.4980
45.000	1.2380	.2580	.2950	-.6410	-.4570	-.1860							.3890	.4490	.3300
90.000	1.2380	.2380	.1980	-.6450	-.4990	-.0920	.0190	-.0530	-.1510	.0430	.0780	-.1410	.3970	.3890	.2490
135.000	1.2380	.2350	.2040	-.6480	-.4490	-.1430							.3430	.3360	.2080
180.000	1.2380	.2580	.2690	-.6010	-.3570	-.2020	.0100	-.1830	-.0310	.0950	.0140	-.2900	.2970	.2580	.2090
225.000	1.2380	.2980	.3490	-.5820	-.5040	-.1240	.0200						.1320	-.0410	-.0590
270.000	1.2380	.3300	.5090	-.3680	-.7670	-.0430	-.0300	-.0990			-.0380	-.2350	.0080	.0290	-.0930
315.000	1.2380	.3300	.4090	-.5400	-.4440	-.0480	-.0770						.2750	.2860	.0270

X/LS	.9670
PHI	
.000	.3040
45.000	.3490
90.000	.2230
135.000	.1470
90.000	.1170

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMS17)

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0240
270.000	-.1220
315.000	-.0320

MACH (2) = 1.244 BETAT (1) = -8.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3880	.4470	.4630	-.3970	-.2800	-.2720	.0080	.0390	.0070	-.0090	.0720	-.1680	.1320	.2780	.2090
													.2560	.4200	.3600
45.000	1.3880	.4530	.3980	-.3620	-.2390	-.1280							.3080	.4700	.4400
90.000	1.3880	.4290	.4310	-.3830	-.2210	-.1230	-.0160	.1240	.0070	.0090	.1700	-.0110	.1930	.4700	.4400
135.000	1.3880	.3620	.3600	-.4200	-.2900	-.1980							.0580	.4800	.4390
180.000	1.3880	.3520	.2910	-.4420	-.3500	-.0230	.0350	.0760	-.0220	.2600	.2720	-.2250	.0750	.2060	.1750
225.000	1.3880	.3960	.2880	-.4820	-.5430	-.0990	.0490						.0520	.0230	.1150
270.000	1.3880	.4620	.6350	-.2230	-.6390	-.1930	.0240	-.0450			-.1680	-.1590	.0720	.0540	.1840
315.000	1.3880	.4620	.4360	-.4010	-.4400	-.1950	.0380								

X/LS .9670

PHI	
.000	.1950
45.000	.2760
90.000	.3510
135.000	.3540
180.000	.3540
225.000	.2590
270.000	.0180
315.000	.2200

MACH (2) = 1.251 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3710	.3670	.4380	-.4060	-.2860	-.2770	.0230	.0210	-.0080	-.0190	.0660	-.1080	.2090	.3910	.3150
													.2770	.4150	.3850
45.000	1.3710	.2910	.3810	-.3920	-.2690	-.1630							.2830	.4230	.3980
90.000	1.3710	.2590	.3810	-.3990	-.2690	-.1440	-.0510	.0930	-.0090	-.0410	.1330	-.0120	.1930	.4580	.4200
135.000	1.3710	.1960	.3280	-.4160	-.3020	-.1330							.0810	.4710	.4230
180.000	1.3710	.2500	.3010	-.4200	-.3170	-.1320	.0430	.0470	-.0800	.1000	.1780	-.2430	.1030	.2210	.1490
225.000	1.3710	.3540	.3060	-.4600	-.3070	-.0260	.0520								

AMES 11-70? IA9 OEA + S3 + T9 SRM BOOSTER (RB=S17)

MACH (2) = 1.251 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3710	.4380	.8400	-.2140	-.6370	-.1710	.0430	-.0080			-.1070	-.1390	.0390	.0390	.0910
													.0800	.0740	.1770
315.000	1.3710	.4380	.4320	-.3990	-.4350	-.2710	.0420								

X/LS	.9870
PHI	
.000	.1850
45.000	.3180
90.000	.3470
135.000	.3480
180.000	.3370
225.000	.2310
270.000	.0420
315.000	.2020

MACH (2) = 1.248 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3450	.2890	.4220	-.4150	-.2940	-.2520	-.0090	-.0110	-.0040	-.0310	.0410	-.0650	.2290	.3540	.3890
													.2520	.3800	.3710
45.000	1.3450	.1980	.3870	-.4120	-.2990	-.. 990									
90.000	1.3450	.1630	.3400	-.4170	-.3010	-.1580	-.0450	.0800	-.0560	-.0610	.0900	-.0340	.2620	.3690	.3590
													.1890	.4210	.3980
135.000	1.3450	.1240	.3100	-.4230	-.3080	-.1410									
180.000	1.3450	.2400	.3080	-.4290	-.3180	-.1510	.0230	.0190	-.1270	.1190	.0850	-.2240	.1290	.3850	.3990
													.1290	.1780	.1130
225.000	1.3450	.3710	.3440	-.4480	-.4910	-.0500	.0280								
270.000	1.3450	.4390	.8520	-.2100	-.6340	-.1630	.0270	-.0320			-.0840	-.1640	.0110	.0870	.0430
													.1160	.1880	.1450
315.000	1.3450	.4350	.4280	-.3990	-.4340	-.2280	.0120								

X/LS	.9870
PHI	
.000	.2390
45.000	.3510
90.000	.3540
135.000	.3090
180.000	.3090
225.000	.1840
270.000	.0110
315.000	.1550

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS17)

MACH (2) = 1.244 BETAT (4) = 4.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3170	.3150	.3990	-.4110	-.3010	-.2270	-.0510	-.0450	-.0160	-.0510	.0070	-.0080	.2770	.4710	.4900
													.2340	.3080	.3450
45.000	1.3170	.1660	.3340	-.4370	-.3360	-.2010									
90.000	1.3170	.0900	.2730	-.4400	-.3310	-.1400	-.0360	.0180	-.0690	-.0510	.0810	-.0210	.3190	.3490	.3210
													.1850	.3490	.3370
135.000	1.3170	.1430	.2660	-.4380	-.3220	-.1340									
180.000	1.3170	.2620	.2870	-.4320	-.3080	-.1090	-.0370	-.0180	-.1650	.0580	.0320	-.1770	.1760	.3350	.3370
													.1450	.1900	.1270
225.000	1.3170	.3370	.3470	-.4460	-.4660	-.0040	-.0170								
270.000	1.3170	.3890	.6490	-.2140	-.6350	-.0410	-.0220	-.0400			-.0250	-.1490	.0350	.0800	.0350
													.2410	.2950	.1540
315.000	1.3170	.3885	.4330	-.3990	-.4140	-.1040	-.0460								

X/LS	.9670
PHI	
.000	.2810
45.000	.4170
90.000	.3190
135.000	.2580
180.000	.2470
225.000	.1460
270.000	.0240
315.000	.1670

MACH (2) = 1.245 BETAT (5) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2840	.2630	.3810	-.4340	-.2780	-.1930	-.1190	-.0350	.0170	-.0560	.0030	-.0520	.4870	.5590	.5250
													.2550	.3830	.3990
45.000	1.2840	.1290	.3150	-.4590	-.3650	-.2030									
90.000	1.2840	.0800	.2120	-.4540	-.3450	-.0920	-.0570	.0000	-.0610	.0070	.0550	-.0800	.3350	.3990	.3070
													.2010	.3780	.2890
135.000	1.2840	.1280	.2390	-.4520	-.3330	-.1290									
180.000	1.2840	.2060	.2980	-.4320	-.2730	-.1140	-.1340	-.0560	-.1620	.0760	.0290	-.1770	.1630	.3210	.2880
225.000	1.2840	.2840	.3790	-.4200	-.4110	.0030	-.1640						.0870	.0230	-.0320
270.000	1.2840	.3380	.6350	-.2020	-.6040	.0450	-.1580	-.0360			-.0530	-.2110	-.0180	.0350	-.0930
													.2660	.3180	.0350
315.000	1.2840	.3390	.4510	-.3800	-.3570	.0010	-.1260								

X/LS	.9670
PHI	
.000	.3110
45.000	.4290
90.000	.3200
135.000	.2330
180.000	.2000

DATE 24 SEP 79 TABULATED PRESSURE DATA - IASA (RBMS17)

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER

MACH (2) = 1.245 BETAT (5) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9675

PHI	
225.000	.0380
270.000	-.0870
315.000	.0350

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS18) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3080	.5330	.3640	-.5910	-.3570	-.2300	.0790	.0550	.0090	.0730	.1110	-.2280	.2780	.3940	.2870
45.000	1.3080	.5410	.3490	-.5840	-.3150	-.1510							.4020	.5520	.4390
90.000	1.3080	.4780	.3740	-.5790	-.3300	-.1650	.1320	.0790	-.0240	.1590	.2050	-.0700	.3860	.5390	.4420
135.000	1.3080	.3710	.2470	-.6240	-.4330	-.0410							.2930	.4680	.3840
180.000	1.3080	.3360	.1910	-.6500	-.5040	-.0020	.1010	.0240	-.0230	.2600	.2430	-.3570	.1980	.4290	.3410
225.000	1.3080	.3580	.1590	-.6980	-.3800	-.1220	.0680						.1030	.1670	.0980
270.000	1.3080	.4410	.5030	-.4230	-.3600	-.1520	.0750	.0300			-.1010	-.1830	.0640	.1220	.0890
315.000	1.3080	.4910	.3910	-.5780	-.5460	-.0870	.0740						.1030	.1190	.2220

X/LS	.9670
PHI	
.000	.1880
45.000	.2270
90.000	.3310
135.000	.3320
180.000	.2540
225.000	.1370
270.000	.1400
315.000	.2170

MACH (1) = 1.099 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9398
PHI															
.000	1.3000	.4990	.3490	-.5940	-.3470	-.2130	.0270	.0530	.0140	-.0050	.0780	-.1100	.3720	.4780	.3910
45.000	1.3000	.4630	.3480	-.5840	-.3630	-.1910							.4110	.5350	.4430
90.000	1.3000	.3970	.3340	-.6030	-.3930	-.1890	.1120	.0630	-.0650	.0630	.1900	-.0960	.3280	.4400	.3870
135.000	1.3000	.3310	.2420	-.6300	-.4520	-.0930							.2870	.4100	.3540
180.000	1.3000	.3260	.2070	-.6190	-.4960	-.0340	.1120	.0060	-.0640	.1840	.1840	-.3030	.2460	.4210	.3360
225.000	1.3000	.3480	.1820	-.6870	-.6070	-.1340	.0640						.1470	.1690	.0930
270.000	1.3000	.4370	.5140	-.4150	-.5340	-.1670	.0690	.0140			-.0870	-.1490	.0950	.1450	.0810
315.000	1.3000	.5100	.3970	-.5670	-.5360	-.0390	.0230						.1590	.1830	.2230

X/LS	.9870

AMES 11-7D7 IA9 OEA + S3 + 79 SRM BOOSTER (RBMS18)

MACH (1) = 1.099 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
.000	.2370
45.000	.3090
90.000	.3340
135.000	.2890
180.000	.2230
225.000	.1390
270.000	.0990
315.000	.2050

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2850	.4730	.3430	-.3920	-.3170	-.1490	-.0020	.0440	-.0130	-.0350	.0490	-.0800	.41[illegible]	3290	.4520
45.000	1.2850	.3940	.3000	-.6030	-.3900	-.1950							.35[illegible]	.4880	.4200
90.000	1.2850	.3330	.2990	-.6210	-.4290	-.1570	.0860	.0100	-.1080	.0190	.1160	-.0770	.2760	.3300	.3070
135.000	1.2850	.3270	.2340	-.6340	-.4520	-.0650							.3260	.4060	.3090
180.000	1.2850	.3210	.2240	-.6330	-.4740	-.0600	.0990	-.0430	-.1080	.1140	.1110	-.2490	.3260	.3930	.3190
225.000	1.2850	.3360	.2050	-.6730	-.6970	-.0980	.0730						.1850	.1220	.0370
270.000	1.2850	.4270	.5310	-.4050	-.7730	-.1350	.0620	-.0120			-.0410	-.1280	.0870	.1680	.0340
315.000	1.2850	.3000	.4130	-.5570	-.5020	-.0520	.0010						.2430	.2990	.2000

X/LS .9870

PHI	
.000	.3280
45.000	.3990
90.000	.3180
135.000	.2290
180.000	.1990
225.000	.1280
270.000	.0030
315.000	.1680

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS18)

MACH (1) = 1.100 BETAT (4) = .130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2640	.4370	.3350	-.3920	-.2850	-.1690	-.0920	.0270	-.0470	-.0730	.0380	-.0490	.3440	.3460	.4780
45.000	1.2640	.3430	.2770	-.6240	-.4190	-.2300							.3270	.4660	.3710
90.000	1.2640	.2950	.2510	-.6380	-.4710	-.1440	.0420	-.0220	-.1440	.0410	.0700	-.0980	.2950	.3360	.2780
135.000	1.2640	.2840	.2180	-.6210	-.4720	-.1020							.3840	.3980	.2940
180.000	1.2640	.2870	.2280	-.6320	-.4310	-.1350	.0620	-.1060	-.1450	.0830	.0700	-.2500	.2610	.3190	.2980
225.000	1.2640	.3090	.2470	-.6540	-.6510	-.0900	.0480						.1480	.0920	.0240
270.000	1.2640	.3830	.5520	-.3920	-.8100	-.1220	.0100	-.0480			.0010	-.1640	.0540	.0950	.0280
315.000	1.2640	.4760	.4350	-.5250	-.4460	-.0650	-.0670						.3600	.2790	.1440

X/LS	.9670
PHI	
.000	.2890
45.000	.3700
90.000	.2760
135.000	.1730
180.000	.1850
225.000	.0740
270.000	.0260
315.000	.2130

MACH (1) = 1.099 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2220	.3470	.3350	-.5790	-.2880	-.1590	-.1530	.0020	.0100	-.0580	.0320	-.0790	.4780	.5640	.5140
45.000	1.2220	.2190	.2110	-.6490	-.4460	-.2540							.3580	.3960	.2970
90.000	1.2220	.1970	.1900	-.6560	-.4950	-.0930	-.0150	-.0630	-.1480	.0480	.0670	-.1370	.3470	.3350	.2180
135.000	1.2220	.1990	.1870	-.6525	-.4720	-.0900							.3530	.3390	.2170
180.000	1.2220	.1910	.2350	-.6240	-.4250	-.1810	.0180	-.1610	-.0270	.1100	.0470	-.2430	.2590	.2840	.1880
225.000	1.2220	.1910	.2900	-.6240	-.5840	-.1170	.0200						.1020	-.0380	-.0770
270.000	1.2220	.2630	.5770	-.3800	-.7550	-.1260	-.0250	-.1040			-.0200	-.2350	.0120	-.0030	-.0750
315.000	1.2220	.4110	.4560	-.5110	-.3360	-.0720	-.0790						.2650	.3270	.0080

X/LS	.9670
PHI	
.000	.3840
45.000	.3990
90.000	.2050
135.000	.1150
180.000	.1190

ANES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS18)

MACH (1) = 1.099 BETAT (1) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9879

PHI	
225.000	.0270
270.000	-.1080
315.000	.1980

MACH (2) = 1.244 BETAT (1) = -8.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3790	.5080	.4480	-.3980	-.2580	-.2330	.0060	.0790	.0390	.0130	.1180	-.1320	.1950	.3320	.2830
45.000	1.3790	.4970	.4480	-.3730	-.2100	-.1020							.3220	.4650	.4290
90.000	1.3790	.4220	.4490	-.3730	-.2270	-.1330	-.0350	.1140	.0280	.0190	.2240	.0340	.3430	.4510	.4210
135.000	1.3790	.3290	.5110	-.4430	-.3190	-.2250							.2120	.4050	.3850
180.000	1.3790	.3190	.2800	-.4610	-.3890	-.1400	.0000	.0800	-.0230	.2490	.3070	-.2100	.0680	.4620	.3840
225.000	1.3790	.3570	.2040	-.5130	-.3510	-.2140	.0260						.0800	.2340	.2330
270.000	1.3790	.4480	.5990	-.2390	-.3880	-.2300	.0420	.0590			-.2080	-.1610	.0800	.0840	.1320
315.000	1.3790	.5080	.4850	-.3830	-.3930	-.2050	.0510						.1000	.0920	.2120

X/LS .9879

PHI	
.000	.1880
45.000	.2920
90.000	.3850
135.000	.3790
180.000	.3180
225.000	.2320
270.000	.0680
315.000	.2370

MACH (2) = 1.244 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3590	.4410	.4210	-.3970	-.2600	-.2400	.0090	.0190	.0210	-.0020	.0900	-.0910	.2810	.3910	.3880
45.000	1.3590	.3840	.4210	-.3940	-.2600	-.1540							.3120	.4440	.4290
90.000	1.3590	.2730	.3990	-.3940	-.2810	-.1710	-.0280	.0850	-.0080	-.0490	.1730	.0130	.2840	.3890	.3870
135.000	1.3590	.1810	.2830	-.4400	-.3300	-.1890							.2180	.4220	.3850
180.000	1.3590	.2230	.2440	-.4380	-.3650	-.0990	-.0010	.0990	-.0720	.1530	.2120	-.2250	.1130	.4630	.3850
225.000	1.3590	.3040	.2110	-.3970	-.4300	-.2260	.0390						.1130	.2250	.1830

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS18)

MACH (2) = 1.244 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3590	.4120	.5980	-.2370	-.5100	-.2470	.0480	.0450			-.1060	-.1210	.0770	.0825	.0970
315.000	1.3390	.4770	.4840	-.3770	-.3870	-.2440	.0390						.1220	.1220	.2000

X/LS	.9670
PHI	
.000	.2310
45.000	.3610
90.000	.3860
135.000	.3250
180.000	.2920
225.000	.2090
270.000	.0550
315.000	.2160

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3380	.3770	.4050	-.4020	-.2600	-.2020	-.0230	-.0230	.0070	-.0240	.0430	-.0160	.3350	.4550	.4300
45.000	1.3380	.2550	.3560	-.4100	-.2920	-.1810							.2780	.3840	.3980
90.000	1.3380	.1550	.3540	-.4250	-.3140	-.1860	-.0360	.0600	-.0500	-.0600	.1090	-.0390	.2410	.3010	.2980
135.000	1.3380	.0780	.2740	-.4360	-.3330	-.1730							.2570	.4230	.3370
180.000	1.3380	.1730	.2580	-.4450	-.3640	-.1410	.0040	.0470	-.1090	.0870	.1090	-.1900	.1270	.4230	.3350
225.000	1.3380	.2930	.2520	-.4910	-.5380	-.1750	.0190						.1230	.1590	.1090
270.000	1.3380	.4020	.6270	-.2240	-.6090	-.2250	.0010	.0050			-.0160	-.1460	.0440	.0940	.0900
315.000	1.3380	.4680	.4890	-.3730	-.3760	-.2260	.0030						.2050	.2570	.1590

X/LS	.9870
PHI	
.000	.2780
45.000	.3980
90.000	.3620
135.000	.2480
180.000	.2830
225.000	.1710
270.000	.0330
315.000	.1720

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + 33 + 79 SRM BOOSTER (RBMS18)

MACH (2) = 1.249 BETAT (4) = 4.120

SECTION (11)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3090	.3810	.3770	-.4080	-.2450	-.1780	-.0750	-.0350	-.0120	-.0380	-.0100	.0040	.4200	.5490	.5070
													.2580	.3330	.3810
45.000	1.3090	.1810	.3180	-.4280	-.3310	-.2170							.3220	.3020	.2750
90.000	1.3090	.0750	.2790	-.4450	-.3460	-.1550	-.0370	.0180	-.0680	-.0510	.0800	-.0170	.2250	.3900	.3300
135.000	1.3090	.0290	.2310	-.4400	-.3300	-.1400							.1570	.3310	.3310
180.000	1.3090	.1810	.2380	-.4480	-.3350	-.0950	-.0620	.0040	-.1420	.0550	.0790	-.1620	.1050	.1430	.1490
225.000	1.3090	.2650	.2590	-.4790	-.5170	-.0570	-.0330						.0130	.0860	.0390
270.000	1.3090	.3720	.6250	-.2180	-.6220	-.1330	-.0950	-.0090			.0040	-.1380	.2620	.2900	.1350
315.000	1.3090	.4240	.4970	-.3590	-.3370	-.1440	-.0470								

X/LS	.9670
PHI	
.000	.2860
45.000	.4480
90.000	.3480
135.000	.2270
180.000	.2490
225.000	.1330
270.000	.0370
315.000	.1930

MACH (2) = 1.245 BETAT (5) = 8.210

SECTION (11)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2700	.3190	.3830	-.4280	-.2290	-.1080	-.1580	-.0900	.0210	-.0350	-.0040	-.0650	.4870	.5530	.5490
													.3510	.4210	.3650
45.000	1.2700	.1350	.2530	-.4670	-.3090	-.2420							.3180	.3750	.2710
90.000	1.2700	.0880	.2050	-.4670	-.3480	-.1220	-.0670	-.0310	-.0880	-.0120	.0510	-.0870	.2090	.3870	.2890
135.000	1.2700	.1180	.1900	-.4690	-.3420	-.0930							.1620	.3250	.2670
180.000	1.2700	.1490	.2210	-.4720	-.3350	-.0810	-.1390	-.0920	-.1380	.0930	.0500	-.1670	.0820	.0290	.0270
225.000	1.2700	.2590	.2780	-.4730	-.5190	-.0010	-.1340								
270.000	1.2700	.3120	.6270	-.2130	-.6190	-.0990	-.2670	-.1240			-.0510	-.2080	-.0140	.0460	-.0370
315.000	1.2700	.4170	.5080	-.3490	-.2990	-.0120	-.1090						.2220	.3580	.0510

X/LS	.9670
PHI	
.000	.3510
45.000	.4490
90.000	.2990
135.000	.1990
180.000	.1790

[illegible]

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 SRM BOOSTER (RBMS19) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .900
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2910	.5870	.5410	-.5780	-.2940	-.1750	.0360	.0750	.0420	.0850	.1390	-.1530	.3750	.4540	.5380
													.4830	.5890	.4870
45.000	1.2910	.5640	.3890	-.5560	-.2880	-.1410									
90.000	1.2910	.4460	.3890	-.5890	-.3430	-.1970	.0860	.0600	-.0340	.1490	.2260	-.0620	.3880	.5110	.4050
													.2440	.3470	.2790
135.000	1.2910	.3150	.1930	-.6530	-.4750	-.1610									
180.000	1.2910	.2970	.1370	-.6680	-.3800	-.1140	.0710	.0280	-.0100	.2550	.2480	-.3330	.2020	.3470	.2790
													.1630	.1870	.2140
225.000	1.2910	.3060	.0680	-.4710	-.4080	-.2120	.0750								
270.000	1.2910	.4040	.4480	-.4450	-.4680	-.1940	.0680	.0780			.0560	-.1720	.0940	.1530	.0840
													.1360	.1540	.2930
315.000	1.2910	.4030	.4320	-.5410	-.4850	-.0490	.0580								

X/LS	.9670
PHI	
.000	.2070
45.000	.2680
90.000	.3580
135.000	.3100
180.000	.1910
225.000	.0980
270.000	.0150
315.000	.2140

MACH (1) = 1.098 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2850	.5550	.5390	-.5700	-.2850	-.1200	.0030	.0780	.0380	.0050	.1140	-.0710	.4500	.5280	.4280
													.4720	.5640	.4500
45.000	1.2850	.4810	.3850	-.5680	-.3350	-.1810							.3170	.3900	.3390
90.000	1.2850	.3630	.3430	-.6070	-.4010	-.2280	.0450	.0600	-.0750	.0330	.1810	-.0810	.2690	.3210	.2430
135.000	1.2850	.2800	.1950	-.6440	-.4870	-.1280									
180.000	1.2850	.2740	.1550	-.6340	-.4920	-.0930	.0930	.0300	-.0490	.1810	.2080	-.2910	.2950	.3880	.2430
													.2050	.1920	.1080
225.000	1.2850	.2870	.0800	-.7050	-.4600	-.2080	.0650								
270.000	1.2850	.3940	.4600	-.4330	-.4870	-.2140	.0280	.0480			-.0300	-.1320	.0890	.1625	.0700
													.2030	.2260	.2291
315.000	1.2850	.3930	.4460	-.5320	-.4660	-.0500	.0050								

.9670

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 CRA + S3 + T9 SRM BOOSTER (RBMS19)

MACH (1) = 1.098 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.2820
45.000	.3380
90.000	.3490
135.000	.2580
180.000	.1520
225.000	.1090
270.000	.0030
315.000	.1910

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.199?	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2700	.5670	.4420	-.5720	-.2590	-.0880	-.0210	.0570	.0030	-.0490	.0470	-.0310	.5110	.5830	.4810
45.000	1.2700	.4110	.3770	-.5960	-.3730	-.1950							.4170	.5110	.4090
90.000	1.2700	.2970	.2950	-.6120	-.4460	-.2080	.0550	.0080	-.1230	.0010	.1260	-.0870	.2770	.3190	.2540
135.000	1.2700	.2530	.1940	-.6460	-.4870	-.0630							.3520	.3520	.2300
180.000	1.2700	.2580	.1690	-.6480	-.5180	-.0730	.1000	-.0230	-.0820	.1270	.1270	-.2360	.4090	.3910	.2280
225.000	1.2700	.2620	.1060	-.7180	-.4990	-.1950	.0730						.2300	.1480	.0930
270.000	1.2700	.3620	.4670	-.4300	-.5250	-.2440	.0340	.0030			-.0310	-.1160	.1030	.1890	.0590
315.000	1.2700	.4340	.4630	-.5130	-.4300	-.0520	-.0130						.2770	.3570	.2200

X/LS .9670

PHI	
.000	.3470
45.000	.3850
90.000	.3140
135.000	.1900
180.000	.1300
225.000	.0950
270.000	-.0030
315.000	.1650

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS19)

MACH (1) = 1.103 BETAT (4) = 4.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9244	.9388
PHI															
.000	1.2440	.4960	.4240	-.5660	-.2190	-.1320	-.1090	.0340	-.0310	-.0710	.0930	-.0380	.5380	.5880	.9020
45.000	1.2440	.3460	.3730	-.6240	-.3810	-.2420							.3970	.4520	.9410
90.000	1.2440	.2500	.2440	-.6460	-.4810	-.2030	.0190	-.0240	-.1530	.0160	.0880	-.1030	.2780	.2970	.2180
135.000	1.2440	.2380	.1880	-.6490	-.4950	-.0890							.4080	.5880	.2590
180.000	1.2440	.2210	.1870	-.6440	-.4810	-.0930	.0780	-.0710	-.1060	.0840	.1010	-.2470	.2840	.3180	.2830
225.000	1.2440	.2140	.1410	-.7000	-.5840	-.1180	.0410						.1750	.1190	.0780
270.000	1.2440	.3210	.4910	-.4160	-.8000	-.4120	-.0130	-.0660			.0030	-.1380	.0940	.1150	.0580
315.000	1.2440	.4510	.4880	-.4730	-.3650	-.0430	-.0500						.3620	.2930	.1590

X/LS	.9670
PHI	
.000	.3260
45.000	.3860
90.000	.2540
135.000	.1350
180.000	.1500
225.000	.0740
270.000	-.0220
315.000	.1150

MACH (1) = 1.100 BETAT (5) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9244	.9388
PHI															
.000	1.1990	.3930	.4040	-.5530	-.2050	-.1720	-.1730	-.0140	-.0520	-.0880	.0180	-.0567	.5560	.6190	.9370
45.000	1.1990	.2040	.3760	-.6930	-.4250	-.3190							.3290	.3910	.9080
90.000	1.1990	.1460	.1710	-.6520	-.5100	-.1420	-.0390	-.1110	-.1480	.0080	.0690	-.1780	.3190	.2880	.1880
135.000	1.1990	.1310	.1680	-.6410	-.4980	-.0570							.5480	.5820	.2720
180.000	1.1990	.0900	.1890	-.6410	-.4810	-.1250	.0230	-.1290	-.0870	.1100	.0490	-.2410	.2760	.2880	.2560
225.000	1.1990	.0870	.1890	-.6710	-.6660	-.0880	-.0090						.1560	.1190	.0830
270.000	1.1990	.1910	.3030	-.4060	-.7130	-.3810	-.0560	-.1040			-.0140	-.2190	.0480	.0730	-.0410
315.000	1.1990	.3930	.3130	-.4530	-.2350	-.0950	-.0620						.3270	.3480	.1780

X/LS	.9670
PHI	
.000	.3880
45.000	.4170
90.000	.1930
135.000	.0800
180.000	.1310

AMES 11-707 IA9 O2A + S3 + T9 SRM BOOSTER (RBMS19)

MACH (1) = 1.100 BETAT (5) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0320
270.000	-.0930
315.000	-.0380

MACH (2) = 1.246 BETAT (1) = -8.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3710	.5680	.5400	-.3820	-.2140	-.1910	.0180	.0640	.0580	.0210	.1510	-.1060	.2670	.4080	.3380
													.3790	.5200	.4630
45.000	1.3710	.5270	.4760	-.3670	-.1920	-.0920							.3380	.4130	.3690
90.000	1.3710	.3970	.4750	-.4020	-.2420	-.1540	-.1400	.0250	.0250	.0230	.2510	.0580	.2140	.2950	.3060
135.000	1.3710	.2790	.2580	-.4610	-.3530	-.2390							.0610	.3650	.3090
180.000	1.3710	.2840	.1860	-.4800	-.3410	-.2020	-.0450	.0790	-.0020	.2250	.2920	-.1930	.0850	.2790	.1710
225.000	1.3710	.3130	.1140	-.4770	-.3280	-.2660	-.0070						.0770	.1030	.1240
270.000	1.3710	.4180	.5510	-.2610	-.3550	-.2780	.0000	.0980			-.1690	-.1680	.1200	.1120	.2220
315.000	1.3710	.4560	.5300	-.3590	-.3450	-.1760	.0420								

X/LS .9670

PHI	
.000	.2180
45.000	.3340
90.000	.4210
135.000	.3470
180.000	.2540
225.000	.1750
270.000	.0330
315.000	.2500

MACH (2) = 1.250 BETAT (2) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3530	.5020	.5090	-.3790	-.2120	-.1890	.0100	.0200	.0320	.0020	.1080	-.0590	.3300	.4930	.4280
													.3470	.4700	.4470
45.000	1.3530	.4090	.4790	-.3860	-.2390	-.1440							.2800	.3370	.3140
90.000	1.3530	.2630	.4160	-.4230	-.2920	-.1980	-.0360	.0120	-.0180	-.0630	.2060	.0040	.2600	.3560	.3100
135.000	1.3530	.1240	.2270	-.4590	-.3640	-.2350							.1330	.5180	.3090
180.000	1.3530	.1900	.1760	-.4550	-.3770	-.1720	-.0350	.0720	-.0480	.1450	.2840	-.2090	.1360	.2680	.1990
225.000	1.3530	.2300	.0930	-.5410	-.4060	-.3130	.0100								

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS19)

MACH (2) = 1.250 BETAT (2) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3530	.3740	.3500	-.2570	-.4220	-.3020	-.0070	.0570			-.0860	-.1160	.0860	.1040	.0880
315.000	1.3530	.3730	.3350	-.3440	-.3350	-.1800	.0350						.1370	.1440	.2060

X/LS	.9670
PHI	
.000	.2600
45.000	.3930
90.000	.4000
135.000	.2780
180.000	.2200
225.000	.1700
270.000	.0400
315.000	.2120

MACH (2) = 1.247 BETAT (3) = .010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3260	.4600	.4970	-.3860	-.2250	-.1610	-.0360	-.0220	.0090	-.0170	.0450	.0210	.4000	.5300	.4790
45.000	1.3280	.3100	.4540	-.4120	-.2820	-.1850							.3020	.4190	.4190
90.000	1.3260	.1580	.3540	-.4400	-.3290	-.2140	-.0630	.0320	-.0520	-.0650	.1360	-.0170	.2620	.2930	.2730
135.000	1.3260	.0480	.2400	-.4530	-.3550	-.2340							.3370	.3760	.2880
180.000	1.3260	.1350	.2050	-.4590	-.3920	-.1760	.0040	.0640	-.0870	.0910	.1540	-.1860	.1330	.3370	.2860
225.000	1.3260	.2040	.1460	-.5380	-.4770	-.3200	.0010						.1440	.1840	.1290
270.000	1.3260	.3280	.3730	-.2490	-.5350	-.3310	-.0620	.0170			.0210	-.1260	.0700	.1170	.0620
315.000	1.3260	.4190	.5400	-.3430	-.3200	-.1230	.0010						.2400	.3060	.1790

X/LS	.9670
PHI	
.000	.3070
45.000	.4280
90.000	.3810
135.000	.2330
180.000	.2180
225.000	.1600
270.000	.0240
315.000	.1820

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS19)

MACH (2) = 1.245 BETAT (4) = 4.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2920	.4320	.4080	-.4000	-.1950	-.1350	-.0980	-.0440	-.0180	-.0510	-.0190	.0250	.5000	.5380	.5280
45.000	1.2920	.2320	.4250	-.4460	-.3290	-.2240							.2830	.4040	.3950
90.000	1.2920	.0680	.2730	-.4630	-.3670	-.2150	-.0620	.0070	-.0680	-.0480	.1150	-.0510	.2990	.3130	.2630
135.000	1.2920	-.0120	.2020	-.4640	-.3660	-.1420							.2990	.4450	.3070
180.000	1.2920	.1100	.1870	-.4700	-.3940	-.1240	-.0260	.0250	-.1110	.0580	.1430	-.1580	.1790	.3670	.3100
225.000	1.2920	.1630	.1510	-.5340	-.5010	-.1930	-.0360						.1250	.1290	.1160
270.000	1.2920	.3090	.3670	-.2490	-.6100	-.3320	-.1430	-.0170			.0260	-.1250	.0240	.0790	.0480
315.000	1.2920	.4110	.5440	-.3370	-.2810	-.0720	-.0260						.3060	.2790	.1380

X/LS	.9670
PHI	
.000	.2910
45.000	.4480
90.000	.3350
135.000	.2040
180.000	.2350
225.000	.1330
270.000	.0020
315.000	.1430

MACH (2) = 1.244 BETAT (5) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2570	.3870	.4770	-.4140	-.1710	-.1280	-.1810	-.0800	.0330	-.0280	-.0120	-.0210	.4220	.5920	.5870
45.000	1.2570	.1500	.3870	-.4790	-.3610	-.2690							.3000	.3790	.3420
90.000	1.2570	.0270	.1950	-.4820	-.3960	-.1490	-.0900	-.0470	-.0930	-.0240	.0520	-.0810	.3060	.3420	.2490
135.000	1.2570	.0080	.1680	-.4620	-.3510	-.0750							.2270	.3670	.2390
180.000	1.2570	.0840	.1790	-.4750	-.3660	-.0980	-.1210	-.0150	-.1070	.0880	.0800	-.1870	.1710	.3530	.2640
225.000	1.2570	.1050	.1750	-.5180	-.4630	-.0530	-.1510						.0890	.0280	.0520
270.000	1.2570	.2610	.5790	-.2340	-.5910	-.3500	-.3180	-.0460			-.0210	-.1930	.0010	.0350	-.0360
315.000	1.2570	.3950	.5550	-.2980	-.2110	-.0050	-.0750						.2390	.3630	.0340

X/LS	.9670
PHI	
.000	.3920
45.000	.4910
90.000	.2820
135.000	.1660
180.000	.1770

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-7X7 IA9 C2A + S5 + T9 SRM BOOSTER (0000819)

MACH (2) = 1.244 BETAT (5) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0810
270.000	-.0690
315.000	-.0050

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBHSE0) (27 APR 75)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9308
PHI															
.000	1.2630	.6400	.4190	-.5620	-.2470	-.0660	.0300	.0990	.0560	.1040	.1660	-.1260	.4580	.4930	.3800
													.3600	.6100	.4850
45.000	1.2630	.5860	.4170	-.5510	-.2640	-.1330							.4010	.4710	.3520
90.000	1.2630	.4060	.3970	-.6050	-.3650	-.2350	-.0310	.0380	-.0600	.1500	.2440	-.0470	.2130	.2580	.1830
135.000	1.2630	.2490	.1330	-.6820	-.5160	-.2160							.2050	.2630	.1850
180.000	1.2630	.2490	.0830	-.6870	-.3720	-.1740	.0240	.0340	.0110	.2410	.2450	-.3070	.2560	.1980	.0910
225.000	1.2630	.2460	-.0340	-.3710	-.4120	-.2510	.0410						.1130	.1590	.0870
270.000	1.2630	.3560	.3820	-.4700	-.4330	-.2630	-.0220	.0620			.0360	-.1580	.1810	.1860	.2420
315.000	1.2630	.5600	.4700	-.5260	-.4330	.0060	.0310								

X/LS	.9670
PHI	
.000	.2270
45.000	.2960
90.000	.3760
135.000	.2770
180.000	.1140
225.000	.0470
270.000	.0970
315.000	.2360

MACH (1) = 1.101 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9308
PHI															
.000	1.2610	.6140	.4180	-.5530	-.2160	-.0400	-.0150	.1100	.0470	.0170	.1270	-.0520	.5140	.5810	.4580
													.5270	.5780	.4540
45.000	1.2610	.5050	.3550	-.5720	-.3150	-.1740							.3120	.3840	.2840
90.000	1.2610	.3210	.3510	-.6270	-.4230	-.2790	-.0510	.0150	-.1120	.0190	.1980	-.0710	.2390	.2490	.1630
135.000	1.2610	.2170	.1320	-.6710	-.5320	-.1780							.3810	.3540	.1800
180.000	1.2610	.2280	.0910	-.6620	-.4130	-.1540	.0680	.0200	-.0450	.1620	.2380	-.2720	.2650	.1940	.0850
225.000	1.2610	.2180	-.0370	-.4550	-.4720	-.2960	.0410						.1070	.1690	.0580
270.000	1.2610	.3380	.3830	-.4620	-.4660	-.3340	-.0180	.0660			.0020	-.1130	.2200	.2580	.2320
315.000	1.2610	.5630	.4860	-.4990	-.4000	.0030	.0080								

X/LS	.9670

AMES 11-FOOT IAS OEA + S3 + T8 SRM BOOSTER (WORSFOLD)

MACH (1) = 1.191 BETAT (2) = -4.000

SECTION (11)SRM BOOSTER DEPENDENT VARIABLE CP

X/S	.9696																								
PHI																									
.000	.2940	.3660	.4360	.5060	.5760	.6460	.7160	.7860	.8560	.9260	.9960	1.066	1.136	1.206	1.276	1.346	1.416	1.486	1.556	1.626	1.696	1.766	1.836	1.906	1.976
45.000	.2940	.3660	.4360	.5060	.5760	.6460	.7160	.7860	.8560	.9260	.9960	1.066	1.136	1.206	1.276	1.346	1.416	1.486	1.556	1.626	1.696	1.766	1.836	1.906	1.976
90.000	.2940	.3660	.4360	.5060	.5760	.6460	.7160	.7860	.8560	.9260	.9960	1.066	1.136	1.206	1.276	1.346	1.416	1.486	1.556	1.626	1.696	1.766	1.836	1.906	1.976
135.000	.2940	.3660	.4360	.5060	.5760	.6460	.7160	.7860	.8560	.9260	.9960	1.066	1.136	1.206	1.276	1.346	1.416	1.486	1.556	1.626	1.696	1.766	1.836	1.906	1.976
180.000	.2940	.3660	.4360	.5060	.5760	.6460	.7160	.7860	.8560	.9260	.9960	1.066	1.136	1.206	1.276	1.346	1.416	1.486	1.556	1.626	1.696	1.766	1.836	1.906	1.976
225.000	.2940	.3660	.4360	.5060	.5760	.6460	.7160	.7860	.8560	.9260	.9960	1.066	1.136	1.206	1.276	1.346	1.416	1.486	1.556	1.626	1.696	1.766	1.836	1.906	1.976
270.000	.2940	.3660	.4360	.5060	.5760	.6460	.7160	.7860	.8560	.9260	.9960	1.066	1.136	1.206	1.276	1.346	1.416	1.486	1.556	1.626	1.696	1.766	1.836	1.906	1.976
315.000	.2940	.3660	.4360	.5060	.5760	.6460	.7160	.7860	.8560	.9260	.9960	1.066	1.136	1.206	1.276	1.346	1.416	1.486	1.556	1.626	1.696	1.766	1.836	1.906	1.976
360.000	.2940	.3660	.4360	.5060	.5760	.6460	.7160	.7860	.8560	.9260	.9960	1.066	1.136	1.206	1.276	1.346	1.416	1.486	1.556	1.626	1.696	1.766	1.836	1.906	1.976

SECTION (11)SRM BOOSTER DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (3) = .020

| X/S | .0000 | .0041 | .0084 | .0169 | .0338 | .0507 | .0676 | .0845 | .1014 | .1183 | .1352 | .1521 | .1690 | .1859 | .2028 | .2197 | .2366 | .2535 | .2704 | .2873 | .3042 | .3211 | .3380 | .3549 | .3718 | .3887 | .4056 | .4225 | .4394 | .4563 | .4732 | .4901 | .5070 | .5239 | .5408 | .5577 | .5746 | .5915 | .6084 | .6253 | .6422 | .6591 | .6760 | .6929 | .7098 | .7267 | .7436 | .7605 | .7774 | .7943 | .8112 | .8281 | .8450 | .8619 | .8788 | .8957 | .9126 | .9295 | .9464 | .9633 | .9802 | .9971 | 1.014 | 1.031 | 1.048 | 1.065 | 1.082 | 1.099 | 1.116 | 1.133 | 1.150 | 1.167 | 1.184 | 1.201 | 1.218 | 1.235 | 1.252 | 1.269 | 1.286 | 1.303 | 1.320 | 1.337 | 1.354 | 1.371 | 1.388 | 1.405 | 1.422 | 1.439 | 1.456 | 1.473 | 1.490 | 1.507 | 1.524 | 1.541 | 1.558 | 1.575 | 1.592 | 1.609 | 1.626 | 1.643 | 1.660 | 1.677 | 1.694 | 1.711 | 1.728 | 1.745 | 1.762 | 1.779 | 1.796 | 1.813 | 1.830 | 1.847 | 1.864 | 1.881 | 1.898 | 1.915 | 1.932 | 1.949 | 1.966 | 1.983 | 2.000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---

AMES 11-7ft IA9 OPA + S3 + T9 SRM BOOSTER (RBNS2D)

MACH (1) = 1.100 BETAT (4) = 4.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2130	.5470	.4060	-.5370	-.1570	-.0970	-.1270	.0140	-.0270	-.0800	.0380	-.0130	.5610	.6030	.5210
													.3800	.4240	.3050
45.000	1.2130	.3350	.2260	-.6260	-.3540	-.2640							.2680	.2800	.1690
90.000	1.2130	.1920	.2240	-.6640	-.4960	-.2780	-.0170	-.0410	-.1730	-.0010	.0860	-.0950	.3570	.2840	.1390
135.000	1.2130	.1740	.1430	-.6610	-.5190	-.0990							.3430	.3280	.1380
180.000	1.2130	.1580	.1310	-.6550	-.5290	-.0800	.0790	-.0490	-.0720	.0920	.1080	-.2300	.2140	.0980	.0400
225.000	1.2130	.1120	.0170	-.7480	-.6250	-.2270	-.0190						.1120	.1010	.0150
270.000	1.2130	.2290	.4040	-.4480	-.7530	-.5590	-.0030	-.0540			.0200	-.1170	.3690	.3380	.1410
315.000	1.2130	.5290	.5300	-.4230	-.2840	-.0260	-.0190								

X/LS	.9670
PHI	
.000	.3730
45.000	.4150
90.000	.2380
135.000	.0900
180.000	.0520
225.000	.0410
270.000	-.0420
315.000	.2720

MACH (1) = 1.099 BETAT (5) = 8.300

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1770	.4910	.3850	-.5230	-.1530	-.1620	-.1810	-.0500	-.0450	-.0910	.0060	-.0130	.6080	.6230	.5490
													.3440	.3670	.2370
45.000	1.1770	.2240	.1550	-.6710	-.3930	-.3730							.2730	.2430	.1200
90.000	1.1770	.1090	.1360	-.6900	-.5250	-.2340	-.0810	-.1140	-.1460	-.0180	.0520	-.0900	.3410	.3210	.1870
135.000	1.1770	.1140	.1390	-.6700	-.5240	-.0660							.3200	.2230	.1700
180.000	1.1770	.0720	.1420	-.6620	-.5120	-.0690	.0310	-.1080	-.0340	.0910	.0310	-.2330	.1570	.0130	-.0520
225.000	1.1770	.0100	.0550	-.7310	-.6340	-.1470	-.0780						.0730	.0110	-.0480
270.000	1.1770	.1720	.4120	-.4480	-.6940	-.5910	-.1110	-.1490			-.0130	-.1760	.3730	.3580	.0220
315.000	1.1770	.5260	.5530	-.4030	-.1220	-.0740	-.0480								

X/LS	.9670
PHI	
.000	.3940
45.000	.4280
90.000	.1690
135.000	.0460
180.000	.0840

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AMES 11-70? IA9 CEA + S3 + T9 SRM BOOSTER (RBMS20)

MACH (1) = 1.099 BETAT (5) = 8.? 0

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	-.0030
270.000	-.0950
315.000	.2280

MACH (2) = 1.248 BETAT (1) = -8.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.11..	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3550	.6350	.5160	-.3670	-.1730	-.1380	.0460	.0590	.0810	.0450	.1830	-.0690	.3460	.4890	.4100
													.4310	.5850	.5140
45.000	1.3550	.5700	.5150	-.3630	-.1730	-.0740							.3550	.4190	.3490
90.000	1.3550	.3880	.4850	-.4140	-.2560	-.1770	-.1880	-.0280	.0000	.0250	.2810	.0650	.2100	.1940	.2090
135.000	1.3550	.2420	.2320	-.4860	-.3890	-.2940							.0900	.3240	.2110
180.000	1.3550	.2550	.1360	-.4980	-.3420	-.2450	-.0680	.0470	.0030	.2070	.3050	-.1680	.1180	.3200	.1740
225.000	1.3550	.2690	.0110	-.3800	-.3760	-.3140	-.0190						.1020	.1490	.1290
270.000	1.3550	.3820	.4950	-.2830	-.3860	-.2980	-.1030	.0730			-.1380	-.1540	.1530	.1580	.2450
315.000	1.3550	.5730	.5690	-.3350	-.2990	-.1180	.0640								

X/LS .9670

PHI	
.000	.2440
45.000	.3730
90.000	.4510
135.000	.3150
180.000	.1790
225.000	.1330
270.000	.0730
315.000	.2610

MACH (2) = 1.248 BETAT (2) = -4.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.	.5700	.4960	-.3670	-.1690	-.1430	.0190	.0100	.0410	.0140	.1130	-.0240	.3890	.3090	.4680
													.3640	.4970	.4730
45.000	1.3>	90	.4220	-.3850	-.2230	-.1410							.3050	.3320	.2770
90.000	1.331	7	.4230	-.4320	-.3190	-.2350	-.1930	-.0780	-.0410	-.0830	.2270	.0240	.2740	.2680	.2300
135.000	1.3310		.1770	-.4840	-.4040	-.2650							.1420	.3030	.2347
180.000	1.3310		.1170	-.4830	-.3580	-.2840	-.0830	.0810	-.0470	.1360	.3120	-.1880	.1690	.3040	.0930
9.000	1.3310	.	-.0200	-.4730	-.4240	-.3610	-.0020								

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM320)

MACH (2) = 1.248 BETAT (2) = -4.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8819	.9044	.9388
PHI															
270.000	1.3310	.3240	.4850	-.2800	-.4350	-.3440	-.0740	.0630			-.0790	-.1030	.1080	.1290	.0590
315.000	1.3310	.5390	.5740	-.3210	-.2870	-.1100	.0340						.1630	.1820	.2190

X/LS	.9670
PHI	
.000	.2860
45.000	.4170
90.000	.4140
135.000	.2440
180.000	.1570
225.000	.1350
270.000	.1290
315.000	.2350

MACH (2) = 1.245 BETAT (3) = .010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8819	.9044	.9388
PHI															
.000	1.3070	.5320	.4810	-.3750	-.1650	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45.000	1.3070	.3570	.3780	-.4180	-.2770	-.1920							[illegible]	[illegible]	[illegible]
90.000	1.3070	.1430	.3480	-.4810	-.3590	-.2620	-.1660	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135.000	1.3070	.0200	.1850	-.4720	-.3960	-.2730							[illegible]	[illegible]	[illegible]
180.000	1.3070	.1020	.1550	-.4770	-.4230	-.2360	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
225.000	1.3070	.1230	.0280	-.3960	-.3070	-.1930							[illegible]	[illegible]	[illegible]
270.000	1.3070	.2810	.4990	-.2770	-.5890	-.3490	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
315.000	1.3070	.5230	.5840	-.3150	-.2800	[illegible]							[illegible]	[illegible]	[illegible]

X/LS	.9670
PHI	
.000	.3290
45.000	.4640
90.000	.3900
135.000	.2220
180.000	.1640
225.000	.1580
270.000	.0820
315.000	.2380

AMES 11-737 IA9 OPA + 93 + 79 SRM BOOSTER (RUN329)

MACH (2) = 1.245 BETAT (4) = 4.330

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2860	.4930	.4480	-.3890	-.1280	-.0820	-.1100	-.0830	-.0280	-.0190	-.0090	.0080	.4940	.5820	.5890
45.000	1.2880	.2590	.2840	-.4550	-.3190	-.2320							.3070	.4270	.3880
90.000	1.2880	.0410	.2370	-.4850	-.4000	-.2800	-.1900	-.0230	-.0820	-.0880	.1180	-.0310	.2960	.3790	.2180
135.000	1.2880	-.0230	.1500	-.4840	-.3940	-.1630							.2990	.3880	.2270
180.000	1.2880	.0800	.1290	-.4850	-.4230	-.1580	.0020	.0350	-.0860	.0830	.1570	-.1410	.2240	.3770	.2260
225.000	1.2880	.0580	.0250	-.5980	-.5380	-.3220	-.1020						.1510	.1090	.1080
270.000	1.2880	.2410	.4980	-.2730	-.6050	-.3880	-.1140	-.0180			.0270	-.1110	.0350	.0850	.0280
315.000	1.2880	.5310	.5840	-.3010	-.2140	-.0230	-.0190						.3070	.2990	.1390

X/LS	.9879
PHI	
.000	.3290
45.000	.4780
90.000	.3280
135.000	.1870
180.000	.1370
225.000	.1210
270.000	.0320
315.000	.2790

MACH (2) = 1.245 BETAT (9) = 7.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2380	.4860	.4250	-.3940	-.1190	-.0930	-.1620	-.1070	-.0490	-.0110	-.0190	-.0090	.4810	.6420	.8080
45.000	1.2380	.1910	.2110	-.4840	-.3430	-.2840							.2780	.3740	.5400
90.000	1.2380	-.0130	.1930	-.4840	-.4280	-.2810	-.1150	-.0710	-.0820	-.0280	.0700	-.0550	.2800	.3920	.1990
135.000	1.2380	.0560	.1550	-.4870	-.3950	-.1700							.2570	.3720	.2240
180.000	1.2380	.0480	.1140	-.4880	-.4360	-.1580	-.0430	-.0030	-.0770	.0780	.0930	-.1550	.2190	.3790	.2270
225.000	1.2380	.0250	.0330	-.5910	-.5430	-.2410	-.1560						.1080	.1190	-.1120
270.000	1.2380	.2310	.3010	-.2610	-.5740	-.4300	-.1990	-.0510			.0180	-.1530	.0350	.0840	-.0180
315.000	1.2380	.5300	.5930	-.2850	-.1561	.0261	-.0441						.3190	.3650	.0480

X/LS	.9879
PHI	
.000	.4130
45.000	.5080
90.000	.2880
135.000	.1440
180.000	.1330

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMS21) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.3300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .900
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.100 BETAT (1) = -8.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2500	.2610	.1020	-.6790	-.5840	-.2940	-.1750	-.1730	-.2130	-.0730	-.1000	-.3130	.0490	.0240	-.0590
45.000	1.2500	.2690	.0850	-.6570	-.5080	-.3420							-.0790	.1870	.0040
90.000	1.2500	.4330	.1230	-.6010	-.3390	-.1370	-.2800	-.3690	-.3180	-.1370	-.2700	-.3590	.0390	.5300	.3780
135.000	1.2500	.6300	.4230	-.5290	-.1800	.0910							.2070	.7630	.5170
180.000	1.2500	.6980	.4780	-.4990	-.0120	.2050	.1310	-.0360	-.0230	.2180	-.0060	-.3900	.1530	.6420	.3340
225.000	1.2500	.6140	.5300	-.4610	-.2700	.2000	.1420						.0050	.1400	-.0590
270.000	1.2500	.3930	.3540	-.4750	-.7670	-.4630	-.0840	-.1830			-.1790	-.2880	-.0980	-.1130	.0540
315.000	1.2500	.2710	-.0580	-.7770	-.7820	-.3480	-.0660						-.0400	-.0250	.0590

X/LS	.9670
PHI	
.000	-.0970
45.000	-.0170
90.000	-.0040
135.000	.3290
180.000	.3810
225.000	.1090
270.000	.0450
315.000	.0020

MACH (1) = 1.104 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2320	.2230	.0690	-.6930	-.6050	-.2140	-.1350	-.1810	-.2750	-.1700	-.1130	-.2980	.0430	.0540	.0210
45.000	1.2320	.2180	.0990	-.6770	-.5440	-.3510							-.0870	.1390	.1090
90.000	1.2320	.3430	.1500	-.6450	-.4040	-.2280	-.3530	-.3120	-.3700	-.1570	-.3080	-.3680	.0370	.4970	.3580
135.000	1.2320	.5650	.3580	-.5730	-.1820	-.0170							.1920	.6970	.4550
180.000	1.2320	.7030	.4710	-.4910	.0040	.1430	.0400	-.1080	-.1220	.1440	-.1000	-.3680	.1880	.5790	.3180
225.000	1.2320	.6340	.5550	-.4310	-.2390	.1640	.0650						.0640	.0750	-.0890
270.000	1.2320	.3610	.3120	-.5000	-.7[illegible]	[illegible]010	-.2400	-.2060			-.0770	-.2590	-.1130	-.0860	.0690
315.000	1.2320	.2160	-.1090	-.8110	-.7580	-.3270	-.1810						.0610	.0820	.1230

X/LS	.9670

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7X7 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS21)

MACH (1) = 1.104 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.0210
45.000	.0160
90.000	.0360
135.000	.2040
180.000	.3150
225.000	.1820
270.000	.0990
315.000	.1060

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2160	.2050	.0750	-.6770	-.5860	-.1520	-.0980	-.1280	-.1060	-.0200	-.1080	-.3480	.1180	.1190	.1280
45.000	1.2160	.1950	.0950	-.6700	-.5480	-.3290							.0480	.0820	.1930
90.000	1.2160	.2650	.1160	-.6660	-.4410	-.2920	-.4100	-.3420	-.3430	-.1600	-.2570	-.2700	.0240	.3620	.3170
135.000	1.2160	.4870	.2930	-.5930	-.1610	-.1160							.1050	.5890	.4000
180.000	1.2160	.6900	.4670	-.4660	-.0200	.0940	-.0300	-.1990	-.1930	.0750	-.1940	-.3780	.1850	.4930	.2800
225.000	1.2160	.6570	.5790	-.3830	-.1350	.1440	.0650						.0770	-.0450	-.1350
270.000	1.2160	.3390	.2770	-.5000	-.7130	-.5210	-.0650	-.1540			-.0860	-.2520	-.1680	-.1290	.0990
315.000	1.2160	.1770	-.1260	-.8030	-.8070	-.5450	-.0360						.1260	.1060	.1670

X/LS .9670

PHI	
.000	.0780
45.000	.0750
90.000	.0910
135.000	.1930
180.000	.2640
225.000	.1620
270.000	.0460
315.000	.2770

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AMES 11-707 IA9 02A + S3 + TO SRM BOOSTER (RBHS21)

MACH (1) = 1.101 BETAT (4) = 4.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1870	.1090	.0740	-.6620	-.5670	-.1480	-.0880	-.0770	-.1110	.0040	-.0490	-.2730	.4440	.4560	.3910
													.1420	.1940	.1990
45.000	1.1870	.1410	.0880	-.6660	-.5540	-.3020							.0510	.1470	.2390
90.000	1.1870	.1900	.0870	-.6840	-.4560	-.4040	-.3060	-.3360	-.2480	-.0680	-.1430	-.0670	.1090	.5030	.2990
135.000	1.1870	.3920	.2160	-.6270	-.2390	-.2780							.2960	.4320	.2100
180.000	1.1870	.6310	.4690	-.4370	-.0100	.0570	-.1070	-.3050	-.2140	-.0090	-.2300	-.3680	.0930	-.0330	-.1260
225.000	1.1870	.5660	.6480	-.3030	.0990	.1730	.0280						-.1450	-.1050	-.0080
270.000	1.1870	.1800	.2710	-.4980	-.5130	-.5250	-.1590	-.1470			-.1010	-.2500	.1280	.1780	.2180
315.000	1.1870	.0410	-.0690	-.7840	-.7490	-.5430	-.1610								

X/LS	.9670
PHI	
.000	.2820
45.000	.1890
90.000	.1150
135.000	.1700
180.000	.2020
225.000	.1160
270.000	.0040
315.000	.2830

MACH (1) = 1.200 BETAT (5) = 8.300

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1580	.0780	.0870	-.6660	-.5630	-.1310	-.1070	-.0360	-.1120	.0220	-.0210	-.3210	.4500	.5370	.4340
													.4110	.4120	.2460
45.000	1.1580	.1200	.0870	-.6870	-.5500	-.2390							.1110	.2210	.1960
90.000	1.1580	.1420	.0810	-.7080	-.4510	-.4600	-.2320	-.3320	-.3160	-.0010	-.1420	-.2600	.0700	.2470	.2140
135.000	1.1580	.3300	.1300	-.6710	-.3270	-.5080							.3280	.1680	.0770
180.000	1.1580	.6480	.4500	-.4410	-.0680	-.3000	-.1650	-.4070	-.1280	-.0010	-.2380	-.3270	.0530	-.2060	-.1840
225.000	1.1580	.6310	.6880	-.2490	.0990	-.1910	.0280						-.1560	-.1870	-.0580
270.000	1.1580	.1800	.2390	-.5000	-.5210	-.6710	-.4630	-.1750			-.0910	-.2990	.1030	.1680	.1940
315.000	1.1580	-.0200	-.0780	-.7780	-.7420	-.5570	-.1170								

X/LS	.9670
PHI	
.000	.2990
45.000	.2010
90.000	.1420
135.000	.1150
180.000	.1490

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS21)

MACH (1) = 1.100 BETAT (1) = 8.300

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0800
270.000	-.1020
315.000	.2770

MACH (2) = 1.245 BETAT (1) = -8.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3450	.2590	.1410	-.5000	-.4430	-.4310	-.2690	-.2770	-.4650	-.2270	-.0780	-.2530	.0350	.0480	.0500
45.000	1.3450	.2480	.1960	-.4790	-.3950	-.3050							-.0270	.0680	.1250
90.000	1.3450	.3970	.1970	-.4240	-.2560	-.1270	-.1690	-.2770	-.4100	-.2210	-.2550	-.2990	.0070	.3390	.4180
135.000	1.3450	.5880	.4980	-.3670	-.1360	.0620							.0500	.5330	.6060
180.000	1.3450	.6510	.5360	-.3470	-.0480	.2030	.1880	.0830	-.0810	-.0540	.0680	-.3350	.0030	.2900	.4800
225.000	1.3450	.5870	.5980	-.3170	-.2180	.2250	.1880						-.0140	.0810	.0750
270.000	1.3450	.3980	.4900	-.2910	-.6240	-.3380	-.3330	-.0930			-.1800	-.2640	-.0860	-.1220	.0230
315.000	1.3450	.2750	.0160	-.6090	-.6890	-.5890	-.1090						-.0250	-.0210	.0180

X/LS .9670

PHI	
.000	.0590
45.000	.0310
90.000	.0570
135.000	.2730
180.000	.4360
225.000	.2600
270.000	.0620
315.000	.0480

MACH (2) = 1.252 BETAT (2) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3250	.1670	.1230	-.4800	-.4300	-.3520	-.1730	-.1740	-.2660	-.3310	-.0840	-.2620	.0350	.0270	.0090
45.000	1.3250	.1090	.1720	-.4690	-.3980	-.3030							-.0380	.0090	.1050
90.000	1.3250	.2650	.2070	-.4350	-.3010	-.1970	-.2290	-.3510	-.4490	-.2550	-.2490	-.2870	-.0270	.1490	.3860
135.000	1.3250	.4890	.4440	-.3740	-.1620	-.0350							.0290	.2530	.5740
180.000	1.3250	.6130	.5480	-.3250	-.0030	.0790	.1830	-.0090	-.1620	-.1050	-.0230	-.3520	.0440	.2960	.4300
225.000	1.3250	.5740	.6340	-.2750	-.1590	.0990	.2160						.0430	.1900	-.0170

AMES 11-7X7 IA9 CRA + S3 + T9 SRM BOOSTER (RBMS21)

MACH (2) = 1.252 BETAT (2) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3250	.3390	.4770	-.2760	-.5980	-.3930	-.3170	-.1060			-.0340	-.2390	-.0780	-.1290	-.0160
315.000	1.3250	.1830	-.0250	-.6150	-.6930	-.5730	-.1780						.0390	.0720	.0470

X/LS	.9670
PHI	
.000	.1820
45.000	.0480
90.000	.0620
135.000	.2800
180.000	.3870
225.000	.2420
270.000	.0840
315.000	.2100

MACH (2) = 1.250 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2980	.1140	.1030	-.4970	-.4400	-.3470	-.0800	-.1090	-.1180	-.0670	-.0340	-.2930	.1110	.0810	.0810
45.000	1.2980	.0330	.1410	-.4820	-.4210	-.2980							.0010	.0400	.0840
90.000	1.2980	.1630	.1410	-.4830	-.3620	-.2720	-.2980	-.4380	-.3480	-.2070	-.2230	-.2550	-.0120	.0700	.3140
135.000	1.2980	.4170	.3670	-.4100	-.2020	-.1410							.0140	.1850	.4900
180.000	1.2980	.6050	.5340	-.3400	.0340	-.0080	.1060	-.1170	-.2480	-.1270	-.0870	-.3020	.0000	.3720	.5260
225.000	1.2980	.5980	.6460	-.2580	-.1030	.0330	.1830						.0820	.0720	-.1170
270.000	1.2980	.3190	.4350	-.2970	-.5720	-.4260	-.3540	-.1150			-.0340	-.2370	-.1430	-.1320	-.1200
315.000	1.2980	.1260	-.0700	-.6380	-.7180	-.5330	-.1200						.0360	.1210	-.0190

X/LS	.9670
PHI	
.000	.1980
45.000	.1080
90.000	.1020
135.000	.2370
180.000	.3240
225.000	.1880
270.000	.0300
315.000	.2580

AMES 11-7X7 IA9 O2A + S3 + T9 SRM BOOSTER (REMS21)

MACH (2) = 1.246 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2620	.0330	.0750	-.5100	-.4550	-.2660	-.0530	-.0810	-.0820	-.0580	-.0280	-.2640	.2900	.4630	.3990
45.000	1.2620	.0840	.0950	-.4960	-.4260	-.2680							.1600	.1720	.2060
90.000	1.2620	.1060	.0930	-.5100	-.4130	-.3260	-.3390	-.2610	-.2790	-.1170	-.1400	-.1920	.0530	.0980	.2480
135.000	1.2620	.2800	.2650	-.4610	-.2230	-.2720							.0600	.3090	.3690
180.000	1.2620	.5270	.5010	-.3260	.0800	-.0970	.0450	-.1940	-.3360	.0080	-.1640	-.2750	.0910	.5790	.2740
225.000	1.2620	.5420	.5190	-.2210	.2960	-.0370	.1400						.0980	.0390	-.0750
270.000	1.2620	.2060	.4220	-.2990	-.3350	-.4640	-.3690	-.1380			-.0550	-.2290	-.1120	-.0930	-.0790
315.000	1.2620	-.0180	-.0600	-.6310	-.6800	-.5190	-.0850						.0750	.2100	-.0080

X/LS	.9670
PHI	
.000	.2100
45.000	.3470
90.000	.1940
135.000	.2320
180.000	.2500
225.000	.1670
270.000	.0280
315.000	.2560

MACH (2) = 1.247 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2090	-.0500	.0610	-.5060	-.4290	-.1430	-.1080	-.0390	-.0400	-.0310	-.0150	-.3220	.2070	.8360	.4930
45.000	1.2090	.0350	.0660	-.4950	-.4120	-.2270							.2180	.5110	.3120
90.000	1.2090	.0500	.0640	-.5160	-.4260	-.3870	-.1740	-.2810	-.3120	-.0910	-.1310	-.2370	.1300	.1820	.2090
135.000	1.2090	.1390	.1960	-.4810	-.2250	-.3950							.0180	.1740	.2550
180.000	1.2090	.4190	.5350	-.2860	.0860	-.1560	-.0040	-.2570	-.4370	.0370	-.2210	-.2360	.2700	.2320	.0990
225.000	1.2090	.4980	.3680	-.1540	.2470	-.0680	.1350						.1160	-.1000	-.1510
270.000	1.2090	.1300	.3900	-.2920	-.2960	-.4800	-.3370	-.1810			-.0840	-.2680	-.1230	-.0990	-.1480
315.000	1.2090	-.1410	-.0090	-.5880	-.5600	-.5020	-.1260						.0220	.2410	-.0510

X/LS	.9670
PHI	
.000	.1950
45.000	.3950
90.000	.2560
135.000	.1730
180.000	.1700

DATE 24 SEP 93 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMS21)

MACH (2) = 1.247 BETAT (5) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.0880
270.000	-.0180
315.000	.2710

AMES 11-707 IA9 OPA + S3 + T9 SRM BOOSTER (RBMS22) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .900
RUDDER = -10.00 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2850	.2970	.1260	-.6770	-.5620	-.3500	-.0660	-.1350	-.1540	-.0510	-.0550	-.2700	.0340	.0010	-.0310
45.000	1.2850	.3260	.1770	-.6480	-.4780	-.2790							-.0190	.2480	.1450
90.000	1.2850	.4690	.2930	-.5980	-.3320	-.0780	-.1760	-.1600	-.2500	-.0410	-.1780	-.3200	.1220	.5500	.3970
135.000	1.2850	.5990	.4100	-.5570	-.2270	.1110							.2090	.7480	.5020
180.000	1.2850	.6350	.4250	-.5450	-.1490	.2020	.1150	-.0390	-.0350	.2250	.0240	-.3970	.1560	.6330	.3370
225.000	1.2850	.5840	.4800	-.5180	-.3860	.1990	.1070						.0100	.1530	-.0180
270.000	1.2850	.4380	.4350	-.4550	-.8310	-.4540	-.0780	-.1960			-.1040	-.2880	-.0880	-.0690	.0130
315.000	1.2850	.3210	.0400	-.7470	-.8180	-.3490	-.1650						.0130	.0050	.0770

X/LS	.9670
PHI	
.000	.0400
45.000	-.0390
90.000	.0470
135.000	.2520
180.000	.3570
225.000	.1900
270.000	.0880
315.000	.0350

MACH (1) = 1.097 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2720	.2660	.1240	-.6650	-.5650	-.2670	-.0220	-.1060	-.1530	-.0730	-.0660	-.2290	.0600	.0340	.0830
45.000	1.2720	.2810	.1520	-.6500	-.5060	-.2690							.0190	.2300	.1980
90.000	1.2720	.3880	.2210	-.6240	-.3950	-.1690	-.2120	-.1850	-.2870	-.0660	-.2100	-.3250	.1080	.4910	.3780
135.000	1.2720	.5370	.3600	-.5760	-.2570	.0250							.1910	.6670	.4980
180.000	1.2720	.6260	.4340	-.5310	-.0890	.1450	.0610	-.0800	-.1180	.1620	-.0550	-.3400	.2050	.5580	.3130
225.000	1.2720	.5920	.5100	-.4800	-.3170	.1510	.0710						.0950	.1050	-.0550
270.000	1.2720	.4120	.4080	-.4620	-.8040	-.4680	-.1260	-.1760			-.0650	-.2250	-.0940	-.0640	.0500
315.000	1.2720	.2760	.0170	-.7540	-.7880	-.3560	-.1460						.0670	.0640	.0890

X/LS	.9670

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + 53 + T9 SRM BOOSTER (RBMS22)

MACH (1) = 1.097 BETAT (2) = -4.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.0820
45.000	.0640
90.000	.1080
135.000	.2410
180.000	.3180
225.000	.1870
270.000	.1210
315.000	.0550

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2530	.2240	.1330	-.0590	-.5580	-.1860	-.0030	-.0650	-.1140	-.0160	-.0380	-.2500	.1280	.1590	.1720
45.000	1.2530	.2330	.1380	-.0530	-.5200	-.2640							.0800	.1770	.2480
90.000	1.2530	.3090	.1850	-.0520	-.4340	-.2510	-.1770	-.2420	-.2640	-.0780	-.1760	-.2780	.1220	.4040	.3910
135.000	1.2530	.4740	.3090	-.0000	-.2490	-.1710							.1700	.5780	.4030
180.000	1.2530	.6270	.4390	-.5200	-.0680	-.0350	-.0030	-.1730	-.2580	.0940	-.1640	-.3580	.1990	.5040	.2840
225.000	1.2530	.5980	.5450	-.4310	-.2490	.1160	.0460						.0860	.0480	-.0610
270.000	1.2530	.3690	.3770	-.4710	-.7670	-.5200	-.2270	-.1610			-.0720	-.2310	-.1210	-.0470	.0220
315.000	1.2530	.2190	.0160	-.7550	-.8090	-.3410	-.0790						.1390	.1040	.0560

X/LS .9670

PHI	
.000	.1910
45.000	.1190
90.000	.1810
135.000	.2260
180.000	.2740
225.000	.1830
270.000	.0890
315.000	.2330

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNSZ2)

MACH (1) = 1.100 BETAT (4) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2160	.1270	.1370	-.6520	-.5360	-.1100	-.0550	-.0430	-.0880	.0090	-.0240	-.2470	.4180	.4380	.3930
45.000	1.2160	.1790	.1370	-.6500	-.5220	-.2330							.2020	.2560	.2480
90.000	1.2160	.2270	.1380	-.6600	-.4720	-.3100	-.1570	-.2630	-.2290	-.0110	-.1070	-.0390	.0920	.1810	.2980
135.000	1.2160	.3570	.2440	-.6230	-.2480	-.3200							.1400	.4560	.3280
180.000	1.2160	.5360	.4540	-.4860	-.0100	-.2130	-.0740	-.2750	-.3390	.0250	-.1820	-.3130	.2560	.4580	.2270
225.000	1.2160	.5060	.5670	-.3870	.0660	-.1740	.0230						.1360	-.0130	-.0830
270.000	1.2160	.1990	.3790	-.4610	-.4850	-.6630	-.3180	-.1790			-.0880	-.2310	-.1070	-.0800	.0360
315.000	1.2160	.0650	.0720	-.7160	-.7390	-.2590	-.1730						.1310	.1980	.1990

X/LS	.9670
PHI	
.000	.2700
45.000	.2350
90.000	.1670
135.000	.1990
180.000	.2230
225.000	.1260
270.000	.0040
315.000	.2990

MACH (1) = 1.099 BETAT (5) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2410	.0440	.1320	-.6560	-.5400	-.0920	-.0720	-.0310	-.0920	.0250	-.0120	-.2860	.4600	.5520	.4410
45.000	1.2410	.1230	.1310	-.6560	-.5360	-.1520							.4620	.5090	.3550
90.000	1.2410	.1660	.1300	-.6850	-.5020	-.3610	-.1470	-.2470	-.2590	.0450	-.0910	-.2490	.1830	.2740	.2230
135.000	1.2410	.2810	.1740	-.6600	-.3120	-.4610							.1180	.2660	.2330
180.000	1.2410	.4970	.4600	-.4760	-.0720	-.3030	-.1470	-.3520	-.0760	.0450	-.1930	-.2790	.3260	.1700	.0770
225.000	1.2410	.4790	.6350	-.2900	.0800	-.2090	.0210						.0990	-.1700	-.1570
270.000	1.2410	.1320	.3400	-.4610	-.5040	-.6310	-.3610	-.2090			-.0790	-.2760	-.0970	-.1020	-.0800
315.000	1.2410	-.0030	.0800	-.7100	-.6030	-.2430	-.1270						.1090	.1730	.1250

X/LS	.9670
PHI	
.000	.2830
45.000	.3440
90.000	.2550
135.000	.1550
180.000	.1550

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS22)

MACH (1) = 1.099 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0780
270.000	-.0820
315.000	.2600

MACH (2) = 1.247 BETAT (1) = -8.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3830	.2810	.1950	-.4730	-.4010	-.4080	-.1870	-.1280	-.1520	-.1300	-.0230	-.2120	.0400	.0680	.0120
45.000	1.3850	.2820	.2580	-.4450	-.3460	-.2610							.0180	.2000	.1890
90.000	1.3850	.4110	.3940	-.3990	-.2300	-.1040	-.0840	-.1900	-.3250	-.1500	-.1480	-.2320	.0790	.4230	.4310
135.000	1.3850	.5470	.4910	-.3630	-.1590	.0280							.1030	.5870	.5790
180.000	1.3850	.5830	.4970	-.3600	-.1370	.1020	.2000	.0870	-.0800	-.0260	.1090	-.3080	.0250	.5480	.4710
225.000	1.3850	.5580	.5590	-.3400	-.2950	.2020	.1980						.0070	.1180	.1090
270.000	1.3850	.4470	.5670	-.2550	-.6420	-.3500	-.3470	-.0370			-.1580	-.2530	-.0550	-.0850	.1090
315.000	1.3850	.3290	.1180	-.5540	-.6450	-.4760	-.1850						.0310	.0090	.0470

X/LS .9670

PHI	
.000	.0710
45.000	.0020
90.000	.1050
135.000	.3080
180.000	.4340
225.000	.2850
270.000	.1130
315.000	.0790

MACH (2) = 1.247 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3450	.1930	.1770	-.4520	-.4110	-.4010	-.0750	-.0920	-.1460	-.1470	-.0230	-.2140	.0420	.0810	.0480
45.000	1.3450	.1350	.2270	-.4490	-.3690	-.2580							.0330	.1580	.1820
90.000	1.3450	.2790	.3260	-.4210	-.2860	-.1300	-.1580	-.2680	-.2450	-.1800	-.1370	-.2280	.0810	.2850	.4010
135.000	1.3450	.4480	.4440	-.3800	-.1940	-.0320							.0890	.3970	.5440
180.000	1.3450	.5380	.5060	-.3490	-.0920	.0380	.1780	.0030	-.1590	-.0810	.0300	-.3050	.0950	.3140	.4220
225.000	1.3450	.5310	.5890	-.3120	-.2370	.0770	.2110						.0800	.1640	.0030

AMES 11-707 IA9 ORA + S3 + T9 SRN BOOSTER (RBMS22)

MACH (2) = 1.247 BETAT (2) = -4.060

SECTION 1 :SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3450	.3910	.5310	-.2640	-.6250	-.3970	-.1690	-.1080			-.0170	-.2150	-.0540	-.0940	.0080
315.000	1.3450	.2540	.0920	-.5640	-.6580	-.4850	-.1630						.0980	.0720	.0810

X/LS .9670

PHI	
.000	.1390
45.000	.0720
90.000	.1250
135.000	.2810
180.000	.3690
225.000	.2470
270.000	.1110
315.000	.1340

MACH (2) = 1.230 BETAT (3) = .020

SECTION 1 :SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3190	.1260	.1530	-.4730	-.4160	-.3900	-.0280	-.0510	-.1110	-.0680	.0040	-.2620	.1530	.1250	.1510
45.000	1.3190	.0670	.1990	-.4590	-.3840	-.2490							.0260	.1130	.1940
90.000	1.3190	.1740	.2550	-.4560	-.3360	-.2080	-.2150	-.1790	-.2600	-.1380	-.1300	-.2140	.0650	.2100	.3510
135.000	1.3190	.3630	.3760	-.4030	-.2330	-.1160							.0700	.2650	.4880
180.000	1.3190	.5130	.3810	-.3590	-.0570	-.0140	.1280	-.0360	-.2330	-.0910	-.0600	-.2490	.0570	.2650	.3950
225.000	1.3190	.6250	.6690	-.2940	-.1760	.0190	.1980						.0560	.0950	-.0700
270.000	1.3190	.3220	.5160	-.2700	-.5080	-.4300	-.2540	-.1400			-.0390	-.2220	-.1060	-.0800	-.0890
315.000	1.3190	.1550	.0560	-.5750	-.6610	-.3690	-.1580						.0710	.1260	.0340

X/LS .9670

PHI	
.000	.2040
45.000	.1330
90.000	.1340
135.000	.2640
180.000	.3740
225.000	.2470
270.000	.1340
315.000	.1360

DATE 24 SEP 93 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 CEA + S3 + T9 SRM BOOSTER (RBMS22)

MACH (2) = 1.290 BETAT (4) = 4.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

Y/B	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3997	.4833	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2915	.0890	.1420	-.4740	-.4100	-.3390	-.0420	-.0310	-.0520	-.0950	.0000	-.1850	.2100	.4280	.5930
45.000	1.2915	.0980	.1840	-.4580	-.3780	-.2240							.2150	.2090	.2320
90.000	1.2915	.1070	.1690	-.4590	-.3740	-.2300	-.1900	-.1720	-.2140	-.0540	-.0890	-.1610	.0830	.1820	.2720
135.000	1.2915	.2930	.2830	-.4370	-.2810	-.2120							.1100	.2830	.4180
180.000	1.2915	.4900	.4680	-.3590	-.0410	-.0830	.0580	-.1580	-.2910	.0300	-.1300	-.2520	.0930	.4290	.5940
225.000	1.2915	.5230	.5920	-.2660	-.0090	-.0280	.1460						.1070	.0650	-.0740
270.000	1.2915	.2840	.5180	-.7610	-.5690	-.4460	-.2890	-.1880			-.0500	-.2270	-.1030	-.0610	-.0930
315.000	1.2915	.0930	.0680	-.5620	-.4370	-.3080	-.1430						.0810	.2030	.0120

Y/B	.9879
PHI	
.000	.2870
45.000	.3
90.000	.2170
135.000	.2450
180.000	.2870
225.000	.1820
270.000	.0580
315.000	.3140

MACH (2) = 1.249 BETAT (9) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

Y/B	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3997	.4833	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2479	.0080	.1130	-.4900	-.4230	-.3490	-.0880	-.0360	-.0190	-.0470	-.0090	-.2910	.2140	.5800	.9180
45.000	1.2479	.0950	.1190	-.4720	-.3870	-.1890							.2400	.9540	.3940
90.000	1.2479	.0990	.1160	-.4980	-.3990	-.2780	-.0910	-.1740	-.2090	-.0410	-.0870	-.1870	.1580	.2900	.2810
135.000	1.2479	.1890	.2130	-.4730	-.2770	-.2480							.0220	.1230	.3110
180.000	1.2479	.3760	.4770	-.3270	.0780	-.1560	.0080	-.2290	-.3810	.0710	-.1710	-.2390	.1380	.5490	.1740
225.000	1.2479	.4590	.5210	-.2650	.2270	-.0980	.0950						.1220	-.0410	-.1380
270.000	1.2479	.1890	.4830	-.7680	-.5690	-.4460	-.2890	-.2240			-.0680	-.2920	-.1150	-.0610	-.0930
315.000	1.2479	-.0080	.1130	-.5320	-.3910	-.2490	-.1430						.0280	.2110	-.0290

Y/B	.987
PHI	
.000	.2870
45.000	.3
90.000	.2170
135.000	.2450
180.000	.2870
225.000	.1820
270.000	.0580
315.000	.3140

[redacted]

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + S3 + T9 SRM BOOSTER (RBMS23) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .000
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.099 BETAT (1) = -8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9588
PHI															
.000	1.3050	.3370	.1710	-.6660	-.5320	-.3590	.0110	-.0640	-.1170	-.0090	-.0260	-.2660	.0000	.0780	.0390
													.0640	.3150	.2210
45.000	1.3050	.3780	.2330	-.6280	-.4480	-.2600							.1870	.3680	.4210
90.000	1.3050	.4940	.3130	-.5870	-.3270	-.0700	-.1000	-.0660	-.1770	.0240	-.0700	-.2650	.2280	.7280	.4930
135.000	1.3050	.5690	.3950	-.5680	-.2710	.1160							.1420	.6150	.3380
180.000	1.3050	.5700	.3830	-.5710	-.2450	.2040	.1200	-.0210	-.0630	.2420	.0690	-.4240	.0170	.1750	.0500
225.000	1.3050	.5500	.4370	-.5550	-.4730	.2040	.1070						-.0970	.0000	.0920
270.000	1.3050	.4750	.5070	-.4300	-.8530	-.4240	-.2380	-.2450			-.0510	-.2650	.0520	.0550	.1310
315.000	1.3050	.3720	.1270	-.7130	-.7710	-.3030	.0400								

X/LS	.9870
PHI	
.000	.0610
45.000	.0330
90.000	.1200
135.000	.2850
180.000	.3510
225.000	.1920
270.000	.1410
315.000	.0690

MACH (1) = 1.097 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9588
PHI															
.000	1.2950	.3130	.1750	-.6470	-.5310	-.2710	.0320	-.0400	-.0990	-.0380	-.0470	-.2230	.0390	.1320	.1730
													.1130	.3140	.2800
45.000	1.2950	.3330	.2060	-.6360	-.4810	-.2420							.1730	.4890	.4100
90.000	1.2950	.4200	.2180	-.6150	-.3920	-.1540	-.0690	-.0960	-.1990	.0060	-.1150	-.2750	.2040	.6220	.4550
135.000	1.2950	.5160	.3850	-.5880	-.3040	-.0650							.2240	.5460	.3200
180.000	1.2950	.5740	.3940	-.5610	-.1910	.0380	.0770	-.0510	-.1470	.1800	-.0200	-.3150	.1200	.1370	-.0 20
225.000	1.2950	.5850	.4630	-.5290	-.4100	.0840	.0740								
270.000	1.2950	.4870	.4020	-.4350	-.8390	-.4670	-.3160	-.2200			-.0600	-.2100	-.0410	-.0040	.1540
315.000	1.2950	.3470	.1180	-.7170	-.7740	-.2950	.0380						.0240	.0130	.1640

X/LS	.9870

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7?? IA9 ORA + S3 + T9 SRM BOOSTER (RBMS23)

MACH (1) = 1.097 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.1250
45.000	.1390
90.000	.1840
135.000	.2740
180.000	.3140
225.000	.1990
270.000	.1670
315.000	.1190

MACH (1) = 1.101 BETAT (2) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0667	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2730	.2680	.1820	-.6540	-.5230	-.2070	.0170	-.0230	-.0890	-.0270	-.0410	-.1590	.1430	.1880	.2130
45.000	1.2730	.2810	.2060	-.6430	-.4930	-.2200							.1600	.2930	.3110
90.000	1.2730	.3480	.2090	-.6370	-.4300	-.1860	-.0570	-.1580	-.2080	-.0130	-.1180	-.2730	.2060	.4230	.3800
135.000	1.2730	.4510	.3120	-.6080	-.3110	-.1530							.2130	.5370	.4070
180.000	1.2730	.5510	.3970	-.5530	-.1300	-.1070	.0200	-.1370	-.2480	.1060	-.1340	-.3390	.2100	.4610	.2860
225.000	1.2730	.5320	.4930	-.4990	-.3330	-.1110	.0460						.0950	.0930	-.0200
270.000	1.2730	.3970	.4760	-.4390	-.8090	-.5720	-.2690	-.1960			-.0840	-.2250	-.0450	.0170	.1010
315.000	1.2730	.2930	.1170	-.7110	-.7590	-.2410	-.0460						.1410	.1360	.1090

X/LS .9670

PHI	
.000	.1540
45.000	.1540
90.000	.2310
135.000	.2520
180.000	.2730
225.000	.1670
270.000	.0910
315.000	.1760

AMES 11-70? IA9 C2A + S3 + T9 SRM BOOSTER (RBMS23)

MACH (1) = 1.192 BETAT (4) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9398
PHI															
.000	1.2450	.1390	.1250	-.6490	-.4990	-.1380	-.0310	-.0150	-.0820	.0070	-.0180	-.2030	.3870	.4360	.3920
													.2680	.3240	.2900
45.000	1.2450	.2310	.1850	-.6430	-.5040	-.1920							.1800	.2520	.3080
90.000	1.2450	.2730	.1850	-.6510	-.4700	-.2170	-.0990	-.1780	-.2100	.0250	-.0630	-.1040	.1640	.3960	.3510
135.000	1.2450	.3540	.2530	-.6260	-.3450	-.2700							.2550	.4480	.2400
180.000	1.2450	.4850	.4030	-.5350	-.0840	-.2110	-.0330	-.2210	-.3030	.0590	-.1420	-.2680	.1580	.0850	-.0370
225.000	1.2490	.4885	.4960	-.4790	-.0240	-.2050	.0060								
270.000	1.2450	.2200	.5000	-.4260	-.7430	-.6700	-.5030	-.2060			-.0840	-.2250	-.0430	.0080	.0950
315.000	1.2450	.1840	.1710	-.6790	-.7180	-.1690	-.0930						.1390	.1870	.1930

X/LS	.9670
PHI	
.000	.2510
45.000	.3150
90.000	.2070
135.000	.2070
180.000	.2320
225.000	.1310
270.000	.0600
315.000	.2670

MACH (1) = 1.098 BETAT (5) = 6.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9398
PHI															
.000	1.2590	.0770	.1800	-.6450	-.5140	-.1070	-.0680	-.0150	-.0750	.0180	.0030	-.1700	.3950	.5210	.4580
													.5270	.5320	.3950
45.000	1.2590	.1420	.1390	-.6330	-.5190	-.0990							.2810	.3410	.2890
90.000	1.2590	.1750	.1590	-.6670	-.5070	-.2530	-.0720	-.1610	-.2360	.0560	-.0320	-.2110	.1310	.2030	.2550
135.000	1.2590	.2350	.2000	-.6510	-.3020	-.3970							.3070	.2190	.0980
180.000	1.2590	.3900	.4170	-.5150	-.0580	-.2970	-.0960	-.3080	-.0250	.0580	-.1300	-.2610	.1550	-.1130	-.1250
225.000	1.2590	.4110	.4830	-.3960	.0620	-.2440	.0010								
270.000	1.2590	.1850	.4450	-.4280	-.4230	-.6740	-.4590	-.2450			-.0690	-.2550	-.0400	-.02 0	-.0100
315.000	1.2590	.0700	.1870	-.6530	-.5580	-.1770	-.1460						.0940	.1940	.1350

X/LS	.9670
PHI	
.000	.2680
45.000	.3410
90.000	.2890
135.000	.2040
180.000	.1540

4[illegible] 11-707 IA9 OCA * SI * [illegible] 5TH BOOSTER (RBM529)

[illegible] = 1.094 BETA (5) = 8.261

[illegible] [illegible] 5TH BOOSTER DEPENDENT VARIABLE CP

[illegible] .95**

PHI

[illegible]
[illegible] = PHI
315.[illegible] .2455

[illegible] = 1.048 BETA (1) = -3.150

SECTION (1)5TH BOOSTER DEPENDENT VARIABLE CP

[illegible] .0000 .0341 .0967 .1133 .1482 .1991 .2844 .3697 .4833 .5770 .7110 .8248 .9817 .9744 .9988

PHI

.0000	1.2010	.3150	.2490	-.4900	.3650	-.3730	-.0840	-.0240	+.0010	+.0900	.0117	-.1990	.0100	.0820	.0280
45.0000	1.3930	.3110	.3150	-.4130	-.3780	-.2210							.0540	.2910	.2280
90.0000	1.3930	.4200	.4200	-.3040	-.2000	-.0370	-.0520	-.1110	-.1200	-.0940	-.0510	-.1760	.1400	.4650	.4400
135.0000	1.3930	.4960	.4680	-.2680	-.1910	-.0090							.1330	.5750	.5500
180.0000	1.3930	.5110	.4800	-.2590	-.2150	.0310	.0210	.0580	-.0600	.0030	.1450	-.2810	.0260	.3920	.4620
225.0000	1.3930	.5210	.5050	-.3630	-.3650	.0670	.2000						.0240	.1460	.0970
270.0000	1.3930	.4730	.6240	-.2260	-.6540	-.2820	-.3400	-.0020			-.1660	-.0400	-.0330	-.0730	.0990
315.0000	1.3930	.3955	.2150	-.5040	-.5940	-.3470	-.0060						-.0250	.0310	.0830

[illegible] .9670

PHI

.0000	.0998
45.0000	.0340
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	.4217
225.0000	.2911
[illegible]	.1555
[illegible]	[illegible]

[illegible] = 1.[illegible] BETA (1) = -4.[illegible]

[illegible] [illegible] 5TH BOOSTER DEPENDENT VARIABLE CP

[illegible] .0000 .0341 .0967 .1133 .1482 .1991 .2844 .3697 .4833 .5770 .7110 .8248 .9817 .9744 .9988

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AMES 11-7X7 IA9 OPA + S3 + T9 SFM BOOSTER (RBNS23)

MACH (2) = 1.249 BETAT (2) = -4.060

SECTION (1)SFM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9328
PHI															
270.000	1.3620	.4500	.8130	-.2325	-.6410	-.4110	-.1080	-.1290			-.0390	-.201	.0190	-.0600	.0480
315.000	1.3620	.3220	.1930	-.5150	-.6030	-.3690	-.0280						.1120	.0700	.0930

X/LS	.9677
PHI	
.000	.0930
45.000	.1140
90.000	.1980
135.000	.3020
180.000	.3830
225.000	.2350
270.000	.1700
315.000	.1180

MACH (2) = 1.248 BETAT (3) = .010

SECTION (1)SFM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9328
PHI															
.000	1.3360	.1620	.2170	-.4540	-.3780	-.3640	-.0010	-.0280	-.0710	-.0690	.0070	-.2180	.0740	.1560	.2030
45.000	1.3360	.0690	.2480	-.4360	-.3510	-.2220							.1100	.2340	.2700
90.000	1.3360	.1790	.2490	-.4200	-.3150	-.1620	.1570	-.0750	-.1940	-.0960	-.0560	-.1690	.1380	.3180	.3780
135.000	1.3360	.3310	.3690	-.4050	-.2490	-.1							.1140	.3360	.4730
180.000	1.3360	.4630	.4610	-.3670	-.1410	-.0300	.1420	-.0750	-.1940	.0070	-.0300	-.2150	.0910	.3050	.4610
225.000	1.3360	.3010	.5600	-.3260	-.2620	-.0470	.2140						.0640	.1100	-.0580
270.000	1.3360	.3950	.5900	-.2410	-.6240	-.4330	-.1720	-.1910			-.0300	-.2010	-.0850	-.0640	-.0550
315.000	1.3360	.2630	.1690	-.5150	-.6030	-.3200	-.0580						.0980	.0760	.0620

X/LS	.9677
PHI	
.000	.1680
45.000	.1930
90.000	.2490
135.000	.2990
180.000	.3420
225.000	.2180
270.000	.1300
315.000	.2330

AMES 11-7D? IA9 CBA + S3 + T9 SRN BOOSTER (RBHS23)

MACH (2) = 1.247 BETAT (4) = 6.120

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3050	.1380	.1090	-.4660	-.3900	-.3220	-.0230	-.0420	-.0390	-.0490	.0090	-.1720	.2650	.4720	.4190
													.3220	.3050	.3080
45.000	1.3050	.0980	.2070	-.4520	-.3650	-.2010							.1380	.2520	.3080
90.000	1.3050	.1200	.2060	-.4550	-.3540	-.1810	-.1000	-.0870	-.1740	-.0470	-.0160	-.1320	.1550	.2870	.4050
135.000	1.3050	.2650	.2970	-.4390	-.2910	-.1740							.1280	.4230	.3200
180.000	1.3050	.4550	.4360	-.3820	-.1050	-.0940	.0900	-.1370	-.2520	.0740	-.0820	-.2090	.1280	.1520	-.0280
225.000	1.3050	.4980	.5600	-.3200	-.2140	-.0260	.1770						-.0410	.0240	.0090
270.000	1.3050	.3480	.5780	-.2460	-.6210	-.4470	-.1380	-.3110			-.0540	-.2000	.1070	.2150	.0930
315.000	1.3050	.1960	.1680	-.5240	-.5980	-.2330	-.0760								

X/LS	.9670
PHI	
.000	.2380
45.000	.3650
90.000	.2670
135.000	.2350
180.000	.2890
225.000	.1760
270.000	.0990
315.000	.3160

MACH (2) = 1.246 BETAT (5) = 8.210

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8246	.8817	.9044	.9388
PHI															
.000	1.2700	.0810	.1630	-.4820	-.4010	-.1580	-.0720	-.0390	-.0090	-.0490	-.0040	-.2420	.2400	.5070	.5140
													.3190	.5330	.4180
45.000	1.2700	.0980	.1570	-.4630	-.3780	-.1540							.1650	.2510	.2880
90.000	1.2700	.1180	.1580	-.4820	-.3940	-.1950	-.0530	-.1080	-.1670	-.0080	-.0270	-.1600	.0810	.1560	.3000
135.000	1.2700	.1710	.2150	-.4830	-.3110	-.2920							.1350	.3590	.1720
180.000	1.2700	.3420	.4170	-.3620	-.0410	-.1600	.0070	-.1660	-.2890	.0140	-.1140	-.2210	.1280	-.0210	-.1040
225.000	1.2700	.4190	.5120	-.3300	.0940	-.1060	.0790						-.0780	-.0440	-.1050
270.000	1.2700	.2330	.5690	-.2470	-.5600	-.4680	-.1240	-.3110			-.0620	-.2420	.0130	.2090	-.0270
315.000	1.2700	.0700	.1940	-.5060	-.5530	-.1730	-.0850								

X/LS	.9670
PHI	
.000	.2310
45.000	.4110
90.000	.3420
135.000	.2440
180.000	.2220

AMES 11-707 IA9 OEA + 33 + 19 SRM BOOSTER (RBMS23)

MACH (2) = 1.246 BETAT (5) = 0.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0730
270.000	-.0040
315.000	.2780

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM324) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .900
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.100 BETAT (1) = -8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3160	.3800	.2190	-.6470	-.4960	-.3590	.0430	-.0140	-.0780	.0070	.0040	-.3480	.0280	.1870	.1500
													.1320	.3870	.2880
45.000	1.3160	.4270	.2790	-.6080	-.4130	-.2320							.2500	.5710	.4420
90.000	1.3160	.5050	.3270	-.5800	-.3210	-.1060	.0180	.0050	-.1200	.0920	.0260	-.2120	.2600	.6800	.4700
135.000	1.3160	.5230	.3660	-.5810	-.3130	.0290							.1550	.5820	.3220
180.000	1.3160	.5080	.3370	-.5920	-.3300	.1620	.1200	.0000	-.0850	.2570	.1580	-.4290	.0290	.1600	.0340
225.000	1.3160	.5070	.3780	-.5910	-.5470	.1750	.1020						.0110	.0670	.1720
270.000	1.3160	.4880	.5460	-.4080	-.8650	-.2770	-.4690	-.2790			-.0270	-.2410	.0320	.0600	.1750
315.000	1.3160	.4160	.2100	-.6770	-.7240	-.2250	.0470								

X/LS	.9670
PHI	
.000	.1440
45.000	.1040
90.000	.1930
135.000	.3100
180.000	.3380
225.000	.1830
270.000	.1540
315.000	.1240

MACH (2) = 1.090 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3030	.3930	.2250	-.6930	-.4890	-.2790	.0540	-.0140	-.0710	-.0240	-.0220	-.2150	.1330	.2640	.2440
													.2310	.4140	.3390
45.000	1.3030	.3740	.2800	-.6150	-.4430	-.2070							.2840	.5170	.4270
90.000	1.3030	.4330	.3070	-.6020	-.3830	-.1230	.0670	-.0350	-.1450	.0480	-.0300	-.2140	.2910	.5840	.4410
135.000	1.3030	.4790	.3350	-.5930	-.3400	-.0810							.2580	.5140	.3130
180.000	1.3030	.5090	.3530	-.5790	-.2830	-.0320	.1000	-.0430	-.1490	.1910	.0180	-.2960	.1380	.1520	.0130
225.000	1.3030	.5190	.4090	-.5660	-.4930	-.0100	.0890						.0040	.0570	.1930
270.000	1.3030	.4800	.5390	-.4070	-.8440	-.3610	-.2870	-.2390			-.0750	-.1860	.0190	.0380	.1950
315.000	1.3030	.3960	.2100	-.6730	-.7140	-.2100	.0340								

X/LS	.9670

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + 33 + T9 SRM BOOSTER (RBNS24)

MACH (1) = 1.090 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.1390
45.000	.1920
90.000	.2420
135.000	.2930
180.000	.3070
225.000	.1830
270.000	.1790
315.000	.1880

MACH (1) = 1.090 BETAT (3) = .030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9338
PHI															
.000	1.2870	.3330	.2310	-.6430	-.4840	-.2000	.0250	.0030	-.0640	-.0210	-.0190	-.1440	.1810	.3090	.3190
45.000	1.2870	.3350	.2420	-.6280	-.4650	-.1880							.2510	.3940	.3880
90.000	1.2870	.3670	.2420	-.6250	-.4280	-.1380	.0330	-.0870	-.1590	.0320	-.0480	-.1850	.2770	.4370	.3970
135.000	1.2870	.4330	.2960	-.6140	-.3630	-.1340							.2490	.4920	.4020
180.000	1.2870	.5010	.3500	-.5830	-.2330	-.1170	.0540	-.1100	-.2220	.1240	-.0780	-.3100	.2460	.4820	.2840
225.000	1.2870	.5260	.4280	-.5490	-.4370	-.0930	.0640						.1760	.1400	.0110
270.000	1.2870	.4650	.5290	-.4090	-.8220	-.4390	-.3100	-.2050			-.0780	-.1690	.0110	.0720	.1180
315.000	1.2870	.3750	.2110	-.6750	-.6970	-.1660	-.0100						.0570	.1210	.1410

X/LS .9670

PHI	
.000	.2060
45.000	.2470
90.000	.2580
135.000	.2640
180.000	.2840
225.000	.1730
270.000	.1140
315.000	.2120

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMS24)

MACH (1) = 1.097 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2620	.2620	.2300	-.3320	-.4580	-.1510	-.0280	.0030	-.0780	.0140	-.0090	-.1330	.3390	.4380	.4130
													.4300	.4620	.3780
45.000	1.2620	.2710	.2270	-.5170	-.4790	-.1700							.2260	.3210	.3180
90.000	1.2620	.2980	.2140	-.6340	-.4650	-.1460	.0140	-.1070	-.1850	.0570	-.0250	-.1570	.2310	.3860	.3270
135.000	1.2620	.3440	.2550	-.6240	-.3810	-.2090							.2490	.4080	.2440
180.000	1.2620	.4320	.3520	-.5600	-.2210	-.1840	.0140	-.1840	-.2720	.0710	-.0930	-.2650	.1810	.1170	.0060
225.000	1.2620	.4500	.4490	-.5130	-.3510	-.1650	.0290						.0200	.0650	.1150
270.000	1.2620	.3470	.5580	-.3900	-.8030	-.5050	-.3150	-.2180			-.0670	-.1920	.1250	.2080	.1650
315.000	1.2620	.2800	.2580	-.6360	-.6540	-.1460	-.0770								

X/LS	.9670
PHI	
.000	.2660
45.000	.3180
90.000	.2730
135.000	.2030
180.000	.2040
225.000	.1270
270.000	.0890
315.000	.2850

MACH (1) = 1.101 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2420	.1580	.2250	-.6340	-.4590	-.1450	-.0920	-.0140	-.0740	.0010	.0200	-.1040	.3380	.3590	.4840
													.3590	.4910	.3850
45.000	1.2420	.1800	.1810	-.6440	-.4960	-.0910							.3830	.3650	.2670
90.000	1.2420	.2070	.1810	-.6550	-.4930	-.1620	-.0230	-.1240	-.2090	.0470	.0070	-.2050	.1850	.2880	.2280
135.000	1.2420	.2330	.2080	-.6480	-.3880	-.3290							.2780	.2430	.0870
180.000	1.2420	.3410	.3580	-.5560	-.0570	-.2940	-.0310	-.2590	.0120	.0800	-.0980	-.2190	.1870	-.1160	-.1220
225.000	1.2420	.3830	.4190	-.5260	.0520	-.2730	-.0350						.0010	.0150	.0300
270.000	1.2420	.2540	.5470	-.3960	-.4480	-.3490	-.2960	-.2300			-.0830	-.2380	.1420	.2840	.2330
315.000	1.2420	.1820	.2880	-.6150	-.5820	-.1350	-.1230								

X/LS	.9670
PHI	
.000	.2880
45.000	.3380
90.000	.2380
135.000	.1730
180.000	.1390

DATE 24 SEP 93 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS24)

MACH (1) = 1.101 BETAT (9) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9875

PHI	
225.000	.0530
270.000	-.0110
315.000	.2590

MACH (2) = 1.246 BETAT (1) = -8.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3840	.3530	.3010	-.4400	-.3430	-.3430	-.0340	.0360	-.0380	-.0480	.0310	-.2310	.0370	.1580	.0880
45.000	1.3840	.3640	.3590	-.4080	-.2860	-.1870							.0990	.3200	.2840
90.000	1.3840	.4300	.3610	-.3840	-.2180	-.1060	-.0350	.0180	-.0380	-.0420	.0320	-.1140	.2020	.4830	.4430
135.000	1.3840	.4300	.4360	-.3890	-.2270	-.0540							.1720	.5720	.5140
180.000	1.3840	.4520	.3930	-.4040	-.2660	-.0580	.2020	.0630	-.0470	.1540	.1710	-.2670	.0330	.4450	.4760
225.000	1.3840	.4850	.4340	-.4100	-.4300	.0680	.2130						.0400	.1800	.0990
270.000	1.3840	.4890	.6470	-.2180	-.6620	-.2700	-.3260	-.1500			-.1680	-.2140	.0110	-.0130	.0990
315.000	1.3840	.4180	.2090	-.4750	-.5470	-.2800	.0170						.0360	.0560	.1280

X/LS .9670

PHI	
.000	.128
45.000	.0870
90.000	.2140
135.000	.3490
180.000	.3570
225.000	.2840
270.000	.1750
315.000	.1870

MACH (2) = 1.249 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3710	.2420	.2880	-.4300	-.3470	-.3470	.0090	.0130	-.0460	-.0530	.0210	-.1940	.0990	.2130	.1620
45.000	1.3710	.1810	.3260	-.4130	-.3090	-.2010							.1520	.3480	.2930
90.000	1.3710	.2640	.3270	-.4000	-.2650	-.1190	-.1030	.0180	-.0890	-.0740	.0210	-.1050	.2010	.4360	.4190
135.000	1.3710	.3100	.4020	-.3940	-.2440	-.0540							.1420	.4540	.4920
180.000	1.3710	.3850	.4140	-.3880	-.2280	-.0290	.0520	.0170	-.1120	-.0360	.1050	-.2810	.1190	.3760	.4370
225.000	1.3710	.4600	.4720	-.3840	-.3840	-.0500	.0430						.1000	.2200	.0280

AMES 11-7D7 IA9 CEA + S3 + T9 SRM BOOSTER (RUN524)

MACH (2) = 1.249 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3710	.4690	.6490	-.2150	-.6480	-.2810	-.1750	-.2570			-.1020	-.1740	.0270	-.0750	.0290
315.000	1.3715	.3770	.2860	-.4750	-.5500	-.2860	.0430						.0230	.0180	.1230

X/LS .9879

PHI	
.000	.1320
45.000	.2700
90.000	.2520
135.000	.3240
180.000	.3700
225.000	.2500
270.000	.1680
315.000	.2060

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3480	.1040	.2700	-.4370	-.3530	-.3290	.0150	-.0060	-.0290	-.0510	.0270	-.1360	.1130	.2200	.2780
45.000	1.3480	.1090	.2870	-.4220	-.3270	-.2020							.1890	.3200	.3220
90.000	1.3480	.1630	.2890	-.4170	-.3030	-.1320	-.1550	.0010	-.1260	-.0700	.0120	-.1110	.1990	.3930	.3850
135.000	1.3480	.2030	.3640	-.4080	-.2690	-.0930							.1380	.3910	.4500
180.000	1.3480	.2770	.4180	-.3850	-.2090	-.0660	.1080	-.0280	-.1690	.0840	.0120	-.2490	.1080	.3080	.3900
225.000	1.3480	.4950	.5020	-.3630	-.3430	-.0840	.1820						.0840	.1580	-.0090
270.000	1.3480	.4820	.6380	-.2160	-.6290	-.3000	-.0690	-.2780			-.0690	-.1950	-.0230	-.0020	-.0050
315.000	1.3480	.3920	.2730	-.4750	-.5450	-.2440	.0220						.0380	.1020	.1080

X/LS .9879

PHI	
.000	.1800
45.000	.2780
90.000	.3220
135.000	.3320
180.000	.3400
225.000	.2100
270.000	.1240
315.000	.2120

AMES 11-70? IA9 OEA + 59 + T9 SRN BOOSTER (RBNS24)

MACH (2) = 1.249 BETAT (4) = 4.110

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.5897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3150	.1980	.2420	-.4470	-.3550	-.3000	-.0180	-.0350	-.0220	-.0590	.0010	-.1350	.2390	.3890	.4220
45.000	1.3150	.1330	.2380	-.4350	-.3440	-.1990							.3870	.4330	.3930
90.000	1.3150	.1360	.2340	-.4390	-.3340	-.1400	-.0780	-.0210	-.1280	-.0210	.0010	-.0910	.1960	.3230	.3380
135.000	1.3150	.2400	.2900	-.4310	-.3050	-.1400							.1690	.3210	.3390
180.000	1.3150	.3850	.3860	-.3950	-.1940	-.0080	.0180	-.0770	-.2150	.0790	-.0490	-.1950	.1490	.3490	.3270
225.000	1.3150	.4240	.3990	-.3570	-.3070	-.0410	.0640						.1080	.1180	-.0230
270.000	1.3150	.3810	.6310	-.2170	-.6240	-.3280	-.0520	-.3280			-.0480	-.1930	-.0130	.0410	.0250
315.000	1.3150	.2620	.2730	-.4870	-.5260	-.1930	-.0110						.0920	.1970	.1010

X/LS .9879

PHI	
.000	.2540
45.000	.3720
90.000	.3480
135.000	.2490
180.000	.2870
225.000	.1740
270.000	.1180
315.000	.2970

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION 1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.5897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2790	.1280	.2210	-.4580	-.3620	-.1590	-.0020	-.0390	.0010	-.0630	.0150	-.1780	.2180	.4790	.3690
45.000	1.2790	.1180	.1860	-.4530	-.3620	-.1530							.2390	.3980	.3890
90.000	1.2790	.1230	.1870	-.4560	-.3610	-.1320	-.0780	-.0420	-.1490	-.0060	.0110	-.1280	.2910	.3350	.2990
135.000	1.2790	.1830	.2380	-.4570	-.3130	-.2190							.1780	.2320	.2780
180.000	1.2790	.2990	.3770	-.3930	-.1390	-.1410	-.0150	.1070	-.2170	.0840	-.0830	-.1920	.1330	.3850	.1840
225.000	1.2790	.3840	.4020	-.3490	-.1960	-.0490	.0710						.1210	.1190	.1760
270.000	1.2790	.2820	.6240	-.2140	-.6140	-.3490	-.0410	-.2810			-.0990	-.2340	-.0430	.0210	.0270
315.000	1.2790	.1860	.2940	-.4550	-.4820	-.1470	-.0090						.0920	.2460	.1240

X/LS .9879

PHI	
.000	.2420
45.000	.4330
90.000	.3110
135.000	.2370
180.000	.1390

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-FT7 IA9 CRA + 53 + T9 SRM BOOSTER

MACH (2) = 1.248 BETAT (5) = 0.[illegible]

SECTION : 11SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .9870

229.000	.0685
279.000	.0515
329.000	.[illegible]

AMES 11-707 IA9 OEA ◆ S3 ◆ T9 SRM BOOSTER

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .900
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.098 BETAT (1) = -8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3160	.4250	.2630	-.6360	-.4590	-.2880	.0590	-.0030	-.0520	.0260	.0350	-.3380	.0930	.2570	.1790
45.000	1.3160	.4660	.3180	-.5990	-.3840	-.2010							.2200	.4480	.3380
90.000	1.3160	.5070	.3610	-.5810	-.3250	-.1260	.1190	.0420	-.0780	.1270	.0970	-.1620	.3240	.5730	.4460
135.000	1.3160	.4790	.3300	-.6020	-.3550	-.0780							.2960	.6240	.4450
180.000	1.3160	.4470	.2880	-.6180	-.4010	.0930	.1420	.0050	-.0950	.2690	.1950	-.3880	.1980	.5360	.3050
225.000	1.3160	.4580	.3120	-.6300	-.6160	.1150	.1320						.0520	.1470	.0210
270.000	1.3160	.4830	.3540	-.4060	-.8540	-.1450	-.1060	-.2340			-.0430	-.2210	.0170	.0690	.1640
315.000	1.3160	.4520	.2790	-.6470	-.6650	-.1870	.0390						.0180	.0230	.1860

X/LS	.9670
PHI	
.000	.1510
45.000	.1450
90.000	.2410
135.000	.3290
180.000	.3170
225.000	.1740
270.000	.1810
315.000	.1470

MACH (1) = 1.095 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3080	.3990	.2690	-.6300	-.4510	-.2930	.0710	.0150	-.0370	-.0190	.0040	-.1950	.2150	.3360	.2980
45.000	1.3080	.4050	.2920	-.6080	-.4190	-.2020							.3120	.4700	.3830
90.000	1.3080	.4290	.2920	-.6030	-.3830	-.1220	.1270	.0130	-.1020	.0760	.0520	-.1650	.3280	.5320	.4300
135.000	1.3080	.4320	.3130	-.6090	-.3820	-.1020							.2940	.5530	.4280
180.000	1.3080	.4360	.3060	-.6050	-.3640	-.0510	.1380	-.0250	-.1400	.2030	.0920	-.3030	.2490	.4880	.3060
225.000	1.3080	.4590	.3420	-.6100	-.5710	-.0270	.1250						.1390	.1620	.0180
270.000	1.3080	.4780	.5590	-.4010	-.8400	-.1520	-.0510	-.1750			-.0760	-.1760	.0350	.0920	.1680
315.000	1.3080	.4360	.2840	-.6400	-.6530	-.1610	.0300						.0470	.0730	.2080

LS	.9670

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A (RBNS23)

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER

MACH (1) = 1.095 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.1880
45.000	.2300
90.000	.2780
135.000	.3040
180.000	.2980
225.000	.1790
270.000	.1960
315.000	.2090

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2920	.3640	.2600	-.6310	-.4450	-.2110	.0280	.0210	-.0520	-.0300	-.0020	-.1280	.2390	.3650	.3690
45.000	1.2920	.3550	.2610	-.6150	-.4460	-.1840							.2900	.4130	.3920
90.000	1.2920	.3810	.2610	-.6180	-.4260	-.1160	.0750	-.0430	-.1300	.0470	.0050	-.1600	.3130	.4520	.3950
135.000	1.2920	.4100	.2920	-.6180	-.4010	-.1250							.2960	.4830	.3830
180.000	1.2920	.4570	.3220	-.5990	-.3200	-.1210	.0840	-.0870	-.2070	.1300	-.0380	-.2880	.2520	.4370	.2780
225.000	1.2920	.4820	.3800	-.5860	-.5110	-.0850	.0840						.1540	.1480	.0180
270.000	1.2920	.4680	.5560	-.3980	-.8220	-.1520	-.0780	-.1540			-.0900	-.1720	.0240	.0860	.1560
315.000	1.2920	.4050	.2800	-.6410	-.6400	-.1090	-.0040						.0820	.1320	.1700

X/LS .9670

PHI	
.000	.2110
45.000	.2820
90.000	.2830
135.000	.2710
180.000	.2610
225.000	.1600
270.000	.1300
315.000	.2350

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 SRM BOOSTER (RBMS25)

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2710	.3210	.2580	-.6300	-.4190	-.1630	-.0500	.0130	-.0710	.0000	.0060	-.0700	.2660	.4360	.4480
45.000	1.2710	.3080	.2300	-.6310	-.4690	-.1800							.3180	.4290	.3660
90.000	1.2710	.3200	.2320	-.6370	-.4660	-.1190	.0400	-.0680	-.1610	.0670	.0100	-.1500	.2760	.3570	.3020
135.000	1.2710	.3430	.2470	-.6340	-.4150	-.1720							.2770	.3640	.2980
180.000	1.2710	.3950	.3160	-.5900	-.2930	-.1760	.0300	-.1630	-.2640	.0930	-.0530	-.2390	.2890	.3680	.2270
225.000	1.2710	.4240	.4050	-.5510	-.4510	-.1240	.0420						.1920	.1350	.0130
270.000	1.2710	.3840	.5810	-.3840	-.8180	-.1700	-.1360	-.1560			-.0530	-.1700	.0490	.1000	.1550
315.000	1.2710	.3450	.3070	-.6110	-.6020	-.1090	-.0770						.1530	.2540	.2060

X/LS	.9670
PHI	
.000	.3010
45.000	.3430
90.000	.2580
135.000	.1980
180.000	.1820
225.000	.1140
270.000	.1180
315.000	.2840

MACH (1) = 1.096 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2320	.2490	.2550	-.6200	-.4060	-.1710	-.1190	-.0100	-.0650	-.0280	.0360	-.1090	.4910	.5520	.4740
45.000	1.2320	.2230	.1910	-.6480	-.4810	-.1170							.3510	.4090	.3580
90.000	1.2320	.2330	.1930	-.6500	-.4940	-.1040	.0040	-.0880	-.1650	.0710	.0640	-.1900	.4380	.4040	.2780
135.000	1.2320	.2450	.2040	-.6500	-.4450	-.2380							.2500	.3110	.2100
180.000	1.2320	.3060	.3130	-.5880	-.2770	-.2690	-.0050	-.2230	-.0190	.0950	-.0530	-.2330	.2390	.2570	.0860
225.000	1.2320	.3620	.3950	-.5590	-.3590	-.2170	-.0070						.1370	-.0930	-.1100
270.000	1.2320	.3130	.5880	-.3780	-.7720	-.1550	-.1020	-.1430			-.0530	-.2330	-.0020	.0140	.0190
315.000	1.2320	.2990	.3500	-.5050	-.5180	-.0980	-.0950						.2710	.2640	.0510

X/LS	.9670
PHI	
.000	.2830
45.000	.3480
90.000	.2550
135.000	.1740
180.000	.1310

DATE 24 SEP 73 TABULATED PRESSURE DATA - IASA

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBNS25)

MACH (1) = 1.098 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0320
270.000	.0090
315.000	.2090

MACH (2) = 1.248 BETAT (1) = -8.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3900	.3950	.3400	-.4250	-.3280	-.3140	-.0100	.0520	-.0160	-.0350	.0590	-.2380	.0610	.2020	.1260
45.000	1.3900	.4050	.3980	-.3950	-.2510	-.1610							.1580	.3460	.3210
90.000	1.3900	.4410	.3950	-.3800	-.2150	-.1180	-.0170	.0690	-.0180	-.0170	.0690	-.0580	.2560	.4830	.4900
135.000	1.3900	.4200	.4090	-.4010	-.2540	-.1030							.1830	.5470	.4890
180.000	1.3900	.4080	.3490	-.4230	-.3240	-.1560	.1000	.0650	-.0310	.2350	.2060	-.2420	.0300	.4880	.4890
225.000	1.3900	.4490	.3730	-.4420	-.4910	.0390	.1270						.0480	.1940	.0980
270.000	1.3900	.4870	.6520	-.2150	-.6570	-.1890	-.0840	-.2000			-.0960	-.2010	.0280	-.0020	.1010
315.000	1.3900	.4420	.3620	-.4450	-.5010	-.2570	.0360						.0440	.0390	.1510

X/LS .9670

PHI	
.000	.1450
45.000	.1260
90.000	.2390
135.000	.3680
180.000	.3840
225.000	.2770
270.000	.1970
315.000	.2020

MACH (2) = 1.248 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3730	.3130	.3290	-.4260	-.3300	-.3210	.0200	.0240	-.0230	-.0310	.0400	-.1690	.1450	.2700	.2370
45.000	1.3730	.2310	.3600	-.4040	-.2890	-.1820							.2120	.3680	.3380
90.000	1.3730	.2690	.3580	-.3980	-.2620	-.1280	-.0860	.0670	-.0490	-.0510	.0760	-.0620	.2440	.4500	.4130
135.000	1.3730	.2580	.3780	-.3980	-.2630	-.0820							.1740	.4850	.4630
180.000	1.3730	.3220	.3660	-.4060	-.2740	-.0720	.0290	.0380	-.0930	.0380	.1420	-.2690	.1230	.4000	.4390
225.000	1.3730	.4170	.4020	-.4200	-.4430	-.0060	.0360						.1100	.2340	.0440

AMES 11-707 1A9 C2A + S3 + T9 SRM BOOSTER

MACH (2) = 1.246 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3730	.4860	.6530	-.2110	-.6440	-.1780	-.0810	-.1520			-.1390	-.1560	.0470	-.0290	.0440
315.000	1.3730	.4130	.3540	-.4420	-.5000	-.2520	.0410						.0530	.0310	.1460

X/LS	.9670
PHI	
.000	.1630
45.000	.2930
90.000	.3170
135.000	.3420
180.000	.3560
225.000	.2410
270.000	.2020
315.000	.2250

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3480	.1700	.3120	-.4260	-.3320	-.3000	.0080	-.0030	-.0130	-.0420	.0340	-.1220	.1720	.2830	.3210
45.000	1.3480	.1410	.3130	-.4140	-.3110	-.1960							.2220	.3480	.3570
90.000	1.3480	.1670	.3120	-.4140	-.2970	-.1320	-.1000	.0400	-.0880	-.0650	.0540	-.0750	.2270	.3980	.3830
135.000	1.3480	.1640	.3540	-.4130	-.2860	-.1000							.1700	.4360	.4270
180.000	1.3480	.1910	.3760	-.4020	-.2610	-.0910	.0920	-.0110	-.1490	.1200	.0390	-.2490	.1200	.3560	.3670
225.000	1.3480	.4480	.4400	-.3980	-.4090	-.0930	.0980						.1090	.1810	.0130
270.000	1.3480	.4770	.6540	-.2070	-.6270	-.1800	.0040	-.1400			-.0660	-.1780	-.0050	.0270	.0110
315.000	1.3480	.4300	.3440	-.4420	-.4930	-.2030	.0200						.0550	.0980	.1220

X/LS	.9670
PHI	
.000	.1920
45.000	.3130
90.000	.3240
135.000	.3290
180.000	.3290
225.000	.2030
270.000	.1480
315.000	.2430

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RDHS29)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (2) = 1.251 BETAT (4) = 4.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3220	.2460	.2810	-.4310	-.3320	-.2680	-.0340	-.0350	-.0120	-.0580	.0060	-.0770	.2160	.3730	.4420
45.000	1.3220	.1350	.2540	-.4320	-.3320	-.1960							.3150	.3840	.3620
90.000	1.3220	.1180	.2480	-.4310	-.3250	-.1300	-.0560	.0080	-.0980	-.0350	.0340	-.0650	.1620	.2800	.3160
135.000	1.3220	.2290	.2850	-.4290	-.3110	-.1270							.2010	.3700	.3540
180.000	1.3220	.3300	.3470	-.4080	-.2490	-.0990	.0340	-.0420	-.1910	.0790	-.0300	-.1920	.1580	.3540	.3160
225.000	1.3220	.4030	.4380	-.3870	-.3740	-.0010	.0190						.1120	.1870	-.0140
270.000	1.3220	.3630	.6520	-.2040	-.6220	-.1280	-.0130	-.1680			-.0440	-.1780	.0090	.0650	-.0190
315.000	1.3220	.3260	.3480	-.4310	-.4750	-.1275	-.0310						.1060	.2100	.1330

X/LS	.9670
PHI	
.000	.2810
45.000	.3850
90.000	.3350
135.000	.2680
180.000	.2670
225.000	.1690
270.000	.1510
315.000	.3300

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2870	.1830	.2630	-.4440	-.3170	-.1590	-.0960	-.0290	.0150	-.0600	.0190	-.0680	.3270	.5840	.5380
45.000	1.2870	.1160	.2050	-.4510	-.3550	-.1660							.2510	.3530	.3630
90.000	1.2870	.1220	.2070	-.4480	-.3430	-.1010	-.0720	-.0200	-.0970	.0340	.0380	-.1030	.3520	.4000	.3290
135.000	1.2870	.1590	.2440	-.4510	-.3240	-.1750							.1510	.3160	.2920
180.000	1.2870	.2640	.3480	-.4130	-.2110	-.1480	-.0720	-.0780	-.1920	.0870	-.0220	-.1810	.1380	.2940	.1720
225.000	1.2870	.3500	.4580	-.3740	-.2980	-.0180	-.0540						.0860	.0060	-.1200
270.000	1.2870	.3210	.6560	-.2030	-.6030	-.0700	-.1130	-.1170			-.0510	-.2250	-.0400	-.0010	-.1110
315.000	1.2870	.2720	.3730	-.4190	-.4370	-.0460	-.1190						.1980	.2820	.0180

X/LS	.9670
PHI	
.000	.2390
45.000	.4360
90.000	.3250
135.000	.2550
180.000	.2090

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMS23)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (2) = 1.248 BETAT (5) = 0.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.0670
270.000	.0650
315.000	.2950

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS26) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.099 BETAT (1) = -8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3160	.4800	.3060	-.6140	-.4060	-.2630	.0740	.0270	-.0180	.0490	.0600	-.2870	.1770	.3170	.2330
45.000	1.3160	.5100	.3490	-.5780	-.3480	-.1720							.3060	.4910	.3940
90.000	1.3160	.4990	.3480	-.5780	-.3230	-.1420	.1420	.0720	-.0460	.1580	.1600	-.1180	.3640	.5660	.4510
135.000	1.3160	.4260	.2940	-.6140	-.3920	-.0800							.3140	.5680	.4160
180.000	1.3160	.3870	.2420	-.6330	-.4590	.0350	.1330	.0160	-.0830	.2860	.2360	-.3770	.1950	.5010	.2920
225.000	1.3160	.4060	.2450	-.6630	-.6810	-.0580	.1150						.0590	.1550	.0360
270.000	1.3160	.4660	.3410	-.4070	-.7450	-.1190	.0390	-.0950			-.0670	-.1990	.0360	.0870	.2170
315.000	1.3160	.4860	.3390	-.6080	-.6080	-.1140	.0580						.0380	.0680	.2220

X/LS	.9670
PHI	
.000	.1670
45.000	.1820
90.000	.2850
135.000	.3310
180.000	.2940
225.000	.1630
270.000	.2260
315.000	.1620

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3050	.4520	.3080	-.6150	-.4020	-.2680	.0760	.0320	-.0200	-.0170	.0360	-.1640	.2840	.3980	.3450
45.000	1.3050	.4450	.3170	-.5980	-.3920	-.1870							.3680	.5010	.4240
90.000	1.3050	.4290	.3190	-.6030	-.3870	-.1460	.1420	.0400	-.0800	.0760	.1120	-.1260	.3590	.5060	.4260
135.000	1.3050	.3870	.2810	-.6220	-.4180	-.0950							.3230	.5160	.4020
180.000	1.3050	.3790	.2560	-.6170	-.4390	-.0210	.1400	-.0120	-.1250	.2090	.1640	-.2970	.2470	.4640	.2940
225.000	1.3050	.4110	.2700	-.6530	-.6510	-.0590	.1090						.1350	.1590	.0270
270.000	1.3050	.4680	.3490	-.4040	-.8390	-.1060	.0550	-.0350			-.0950	-.1550	.0700	.1260	.1900
315.000	1.3050	.4780	.3470	-.6070	-.5890	-.0930	.0500						.0840	.1210	.2310

X/LS	.9670

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 SRM BOOSTER (RBMS26)

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.2210
45.000	.2890
90.000	.3110
135.000	.3050
180.000	.2770
225.000	.1660
270.000	.2150
315.000	.2340

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2910	.4200	.3040	-.6150	-.3820	-.2330	.0230	.0340	-.0320	-.0510	.0370	-.0920	.3070	.4450	.4150
45.000	1.2910	.3990	.2830	-.6100	-.4245	-.1900							.3280	.4440	.4110
90.000	1.2910	.3660	.2870	-.6160	-.4270	-.1200	.0970	-.0030	-.1120	.0340	.0860	-.1290	.3240	.4230	.3710
135.000	1.2910	.3640	.2650	-.6220	-.4310	-.1110							.3090	.4500	.3620
180.000	1.2910	.3830	.2670	-.6200	-.4140	-.0760	.1040	-.0610	-.1630	.1190	.0960	-.2680	.2630	.3940	.2570
225.000	1.2910	.4140	.2920	-.6360	-.6190	-.0350	.0870						.1690	.1280	.0190
270.000	1.2910	.4580	.5570	-.3930	-.8290	-.0360	.0350	-.0330			-.0720	-.1460	.0590	.1300	.2060
315.000	1.2910	.4670	.3550	-.5960	-.5640	-.0600	.0120						.1470	.2070	.2040

X/LS .9670

PHI	
.000	.2830
45.000	.3290
90.000	.3030
135.000	.2580
180.000	.2400
225.000	.1400
270.000	.1710
315.000	.2960

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CBA + S3 + T9 SRM BOOSTER (RBMS20)

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2720	.3910	.3010	-.6120	-.3480	-.1740	-.0700	.0220	-.0650	-.0470	.0210	-.0600	.4290	.5470	.4670
45.000	1.2720	.3370	.2480	-.6230	-.4460	-.2080							.2480	.3490	.3820
90.000	1.2720	.3230	.2490	-.6230	-.4630	-.1160	.0540	-.0300	-.1500	.0610	.0590	-.0780	.2980	.3710	.2980
135.000	1.2720	.3220	.2370	-.6340	-.4460	-.1300							.2710	.3570	.2820
180.000	1.2720	.3410	.2700	-.6160	-.3750	-.1420	.0510	-.1320	-.2060	.0870	.0490	-.2570	.2940	.3520	.2020
225.000	1.2720	.3690	.3260	-.6030	-.5670	-.0820	.0510						.2230	.1330	.0210
270.000	1.2720	.4060	.3810	-.3750	-.8160	-.0280	-.0090	-.0490			-.0220	-.1550	.0570	.1250	.1630
315.000	1.2720	.4300	.3620	-.5630	-.5180	-.0600	-.0600						.3240	.3100	.1650

X/LS	.9670
PHI	
.000	.3270
45.000	.3710
90.000	.2850
135.000	.1910
180.000	.1690
225.000	.0910
270.000	.1630
315.000	.2990

MACH (1) = 1.096 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2340	.3090	.2940	-.5950	-.3400	-.1650	-.1350	-.0090	-.0320	-.0350	.0460	-.0950	.3190	.3140	.4650
45.000	1.2340	.2370	.1960	-.6440	-.4580	-.1790							.3750	.4520	.3310
90.000	1.2340	.2420	.1960	-.6470	-.4920	-.0900	.0120	-.0520	-.1490	.0660	.0870	-.1480	.4000	.3850	.2500
135.000	1.2340	.2420	.1990	-.6480	-.4520	-.1400							.3400	.3360	.2100
180.000	1.2340	.2650	.2690	-.6030	-.3600	-.2050	.0080	-.1650	-.0190	.1090	.0240	-.2240	.2620	.2550	.0760
225.000	1.2340	.3040	.3500	-.5630	-.4970	-.1360	.0170						.1410	-.0430	-.1000
270.000	1.2340	.3310	.5900	-.3700	-.7630	-.0510	-.0310	-.0980			-.0300	-.2310	.0130	.0340	.0070
315.000	1.2340	.3750	.4070	-.5420	-.4350	-.0500	-.0740						.2750	.2820	.1230

X/LS	.9670
PHI	
.000	.3220
45.000	.3520
90.000	.2320
135.000	.1500
180.000	.1230

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RDHS20)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (1) = 1.050 BETAT (5) = 0.700

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0260
270.000	-.0230
315.000	.3500

MACH (2) = 1.247 BETAT (1) = -0.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1139	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3080	.4520	.3940	-.4080	-.2690	-.2700	.0060	.0340	.0100	-.0080	.0710	-.1790	.1160	.2620	.2000
45.000	1.3080	.4530	.4340	-.3780	-.2310	-.1250							.2480	.4130	.3740
90.000	1.3080	.4320	.4330	-.3800	-.2170	-.1220	-.0110	.1350	.0130	.0060	.1740	-.0080	.3060	.4690	.4390
135.000	1.3080	.3680	.3590	-.4130	-.2840	-.2000							.1810	.4750	.4400
180.000	1.3080	.3530	.2930	-.4380	-.3580	-.0290	.0330	.0800	-.0160	.2650	.2880	-.2250	.0480	.4820	.4390
225.000	1.3080	.3980	.2910	-.4780	-.3410	-.1030	.0510						.0620	.2020	.1080
270.000	1.3080	.4880	.6360	-.2190	-.6410	-.1930	.0240	-.0900			-.1620	-.1780	.0510	.0170	.1050
315.000	1.3080	.4790	.4330	-.4050	-.4390	-.1960	.0350						.0690	.0400	.1790

X/LS .9670

PHI	
.000	.1520
45.000	.2360
90.000	.3240
135.000	.3780
180.000	.3550
225.000	.3000
270.000	.2360
315.000	.2290

MACH (2) = 1.250 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3730	.3780	.3600	-.4020	-.2830	-.2740	.0220	.0260	-.0010	-.0190	.0670	-.1270	.2100	.3320	.3060
45.000	1.3730	.3010	.3060	-.3860	-.2650	-.1610							.2770	.4180	.3850
90.000	1.3730	.2670	.3060	-.3960	-.2670	-.1440	-.0450	.0990	-.0160	-.0430	.1380	-.0180	.2060	.4240	.3970
135.000	1.3730	.1990	.3250	-.4160	-.3010	-.1370							.1850	.4550	.4190
180.000	1.3730	.2520	.2930	-.4180	-.3180	-.1030	.0340	.0550	-.0760	.1080	.1860	-.2370	.0740	.4160	.4190
225.000	1.3730	.3530	.3000	-.4620	-.3190	-.0390	.0410						.0980	.2190	.0810

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CRA + S3 + T9 SRM BOOSTER (RBMS28)

MACH (2) = 1.250 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3790	.4400	.6370	-.2140	-.6380	-.1660	.0340	-.0030			-.1270	-.1400	.0630	.0440	.0800
315.000	1.3790	.4470	.4380	-.3980	-.4310	-.2530	.0390						.0630	.0770	.1720

X/LS	.9670
PHI	
.000	.1830
45.000	.2920
90.000	.3380
135.000	.3490
180.000	.3340
225.000	.2320
270.000	.2230
315.000	.2470

MACH (2) = 1.248 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3480	.2880	.3680	-.4100	-.2910	-.2480	-.0060	-.0090	.0000	-.0310	.0430	-.0640	.2330	.3850	.3940
45.000	1.3480	.1990	.3380	-.4090	-.2970	-.1870							.2550	.3580	.3720
90.000	1.3480	.1680	.3190	-.4150	-.3020	-.1570	-.0440	.0610	-.0540	-.0580	.0930	-.0900	.2630	.3670	.3620
135.000	1.3480	.1290	.3120	-.4150	-.3060	-.1430							.1900	.4200	.3960
180.000	1.3480	.2450	.3070	-.4150	-.3180	-.1510	.0230	.0240	-.1260	.1100	.0850	-.2200	.1280	.3680	.3820
225.000	1.3480	.3710	.3420	-.4480	-.4910	-.0520	.0280						.1220	.1810	.0360
270.000	1.3480	.4370	.6540	-.2070	-.6320	-.1590	.0280	-.0260			-.0580	-.1620	.0250	.0600	.0360
315.000	1.3480	.4420	.4310	-.4000	-.4290	-.2230	.0140						.1220	.1760	.1490

X/LS	.9670
PHI	
.000	.2320
45.000	.3550
90.000	.3380
135.000	.3060
180.000	.3080
225.000	.1880
270.000	.1780
315.000	.2890

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RUN529)

MACH (2) = 1.248 BETAT (4) = 4.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3150	.3200	.3340	-.4250	-.3010	-.2250	-.0530	-.0420	-.0130	-.0490	.0120	-.0200	.2910	.4800	.4880
45.000	1.3150	.1440	.2730	-.4360	-.3360	-.2000							.2340	.3119	.3480
90.000	1.3150	.0800	.2710	-.4370	-.3280	-.1330	-.0420	.0260	-.0710	-.0500	.0910	-.0390	.3280	.3910	.3270
135.000	1.3150	.0970	.2760	-.4360	-.3190	-.1280							.1860	.3370	.3410
180.000	1.3150	.2590	.3090	-.4360	-.2990	-.1180	-.0370	-.0200	-.1670	.0590	.0240	-.1880	.1790	.3440	.2880
225.000	1.3150	.3300	.3650	-.4360	-.4530	-.0040	-.0200						.1530	.2100	.0290
270.000	1.3150	.3910	.6560	-.2100	-.6320	-.0340	-.0270	-.0400			-.0200	-.1500	.0440	.0940	.0300
315.000	1.3150	.4040	.4330	-.3960	-.4140	-.0930	-.0450						.2640	.3080	.1370

X/LS	.9670
PHI	
.000	.2780
45.000	.4180
90.000	.3190
135.000	.2800
180.000	.2490
225.000	.1520
270.000	.1900
315.000	.3080

MACH (2) = 1.247 BETAT (5) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2830	.2840	.3150	-.4320	-.2660	-.1910	-.1250	-.0370	.0210	-.0360	.0030	-.0350	.4860	.5360	.5220
45.000	1.2830	.1250	.2090	-.4380	-.3650	-.2020							.2930	.3750	.3930
90.000	1.2830	.0840	.2120	-.4530	-.3450	-.0920	-.0590	.0020	-.0880	-.0020	.0500	-.0790	.3630	.4020	.3080
135.000	1.2830	.1310	.2310	-.4540	-.3320	-.1270							.2060	.3770	.2790
180.000	1.2830	.2050	.2920	-.4300	-.2770	-.1150	-.1390	-.0570	-.1620	.0740	.0180	-.1740	.1650	.3180	.2030
225.000	1.2830	.2850	.3770	-.4300	-.4120	.0030	-.1750						.0900	.0240	-.1080
270.000	1.2830	.3400	.6580	-.2020	-.6030	.0490	-.1640	-.0340			-.0360	-.2110	-.0130	.0390	-.1090
315.000	1.2830	.3750	.4550	-.3790	-.3550	.0030	-.1270						.2700	.3170	.0370

X/LS	.9670
PHI	
.000	.3090
45.000	.4270
90.000	.3190
135.000	.2280
180.000	.1940

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMS20)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (2) = 1.247 BETAT (9) = 0.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.0530
270.000	.0540
315.000	.3390

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMS27) (27 APR 73)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0500 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.097 BETAT (1) = -8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3060	.5270	.3420	-.5960	-.3600	-.2370	.0750	.0510	.0080	.0730	.1030	-.2340	.2690	.3690	.2840
													.3950	.5470	.4330
45.000	1.3060	.5370	.3710	-.5670	-.3180	-.1560							.3800	.5400	.4390
							.1280	.0760	-.0330	.1530	.1970	-.0780	.2850	.4600	.3620
90.000	1.3060	.4820	.3700	-.5820	-.3320	-.1640							.1930	.4230	.2560
													.0960	.1600	.0650
135.000	1.3060	.3740	.2450	-.6320	-.4290	-.0410							.0760	.1150	.1830
							.0990	.0180	-.0310	.2590	.2450	-.3650	.0940	.1060	.2270
180.000	1.3060	.3360	.1910	-.6510	-.5100	.0030									
							.0700								
225.000	1.3060	.3560	.1610	-.6870	-.3890	-.1190					-.1160	-.1890			
							.0740	.0240							
270.000	1.3060	.4410	.5010	-.4230	-.3740	-.1480									
							.0730								
315.000	1.3060	.5100	.3830	-.5780	-.5510	-.0930									

X/LS	.9670
PHI	
.000	.1800
45.000	.2200
90.000	.3220
135.000	.3250
180.000	.2330
225.000	.1420
270.000	.2300
315.000	.1980

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2990	.5070	.3480	-.5930	-.3440	-.1630	.0350	.0590	.0040	-.0070	.0710	-.1210	.3730	.4760	.3950
													.4200	.5380	.4480
45.000	1.2990	.4870	.3320	-.5840	-.3630	-.1810							.3340	.4420	.3950
							.1320	.0520	-.0720	.0610	.1500	-.1010	.2950	.4130	.3350
90.000	1.2990	.4040	.3140	-.6050	-.3920	-.1740							.2570	.4210	.2660
													.1500	.1680	.0550
135.000	1.2990	.3450	.2430	-.6310	-.4530	-.0720							.1000	.1360	.1580
							.1120	.0010	-.0810	.1830	.1850	-.3020	.1610	.1910	.2320
180.000	1.2990	.3280	.2110	-.6190	-.4930	-.0200									
							.0640								
225.000	1.2990	.3600	.1860	-.6860	-.5440	-.1160					-.0930	-.1410			
							.0700	.0180							
270.000	1.2990	.4410	.5180	-.4130	-.4770	-.1500									
							.0360								
315.000	1.2990	.5100	.4010	-.5710	-.5280	-.0810									

X/LS	.9670

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RONSET)

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.2560
45.000	.3090
90.000	.3370
135.000	.2920
180.000	.2260
225.000	.1460
270.000	.2170
315.000	.2520

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2820	.4740	.3470	-.6000	-.3130	-.1450	-.0050	.0450	-.0170	-.0620	.0560	-.0550	.4270	.5250	.4520
45.000	1.2820	.4080	.2980	-.6080	-.3930	-.1970							.3510	.4740	.4170
90.000	1.2820	.3520	.2990	-.6280	-.4300	-.1570	.0780	.0090	-.1120	.0190	.1130	-.0740	.2790	.3900	.3090
135.000	1.2820	.3240	.2380	-.6410	-.4570	-.0620							.3250	.4060	.3070
180.000	1.2820	.3280	.2240	-.6420	-.4710	-.0580	.0950	-.0470	-.1130	.1130	.1130	-.2490	.3250	.3920	.2290
225.000	1.2820	.3480	.2100	-.6840	-.6910	-.1050	.0700						.1850	.1320	.0410
270.000	1.2820	.4270	.5280	-.4100	-.7640	-.1400	.0560	-.0150			-.0160	-.1210	.0930	.1680	.2030
315.000	1.2820	.5100	.4130	-.5630	-.5020	-.0640	-.0070						.2370	.3010	.2210

X/LS .9670

PHI	
.000	.3170
45.000	.3540
90.000	.3150
135.000	.2220
180.000	.1270
225.000	.1280
270.000	.1810
315.000	.3140

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNS27)

AMES 11-7X7 IA9 CBA + S3 + T9 SRM BOOSTER

MACH (1) = 1.099 BETAT (4) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2800	.4440	.3370	-.5920	-.2840	-.1680	-.0940	.0320	-.0440	-.0760	.0390	-.0450	.3610	.5490	.4720
45.000	1.2800	.3490	.2480	-.6250	-.4190	-.2340							.3360	.4660	.3670
90.000	1.2800	.2890	.2490	-.6390	-.4720	-.1460	.0390	-.0220	-.1440	.0440	.0770	-.0930	.2960	.3360	.2750
135.000	1.2800	.2810	.2120	-.6230	-.4740	-.1000							.3660	.3990	.2940
180.000	1.2800	.2830	.2270	-.6350	-.4370	-.1370	.0600	-.1010	-.1440	.0870	.0770	-.2580	.2680	.3270	.1840
225.000	1.2800	.3060	.2410	-.6550	-.6540	-.0940	.0480						.1600	.1250	.0280
270.000	1.2800	.3820	.5470	-.3920	-.8120	-.1320	.0090	-.0430			.0070	-.1630	.0610	.1090	.1560
315.000	1.2800	.4820	.4380	-.5240	-.4420	-.0660	-.0700						.3610	.2700	.1580

X/LS	.9870
PHI	
.000	.2930
45.000	.3750
90.000	.2760
135.000	.1710
180.000	.1840
225.000	.0850
270.000	.1500
315.000	.3190

MACH (1) = 1.101 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2190	.3500	.3390	-.5840	-.2820	-.1610	-.1550	.0270	-.0060	-.0550	.0400	-.0640	.4860	.5680	.5190
45.000	1.2190	.2220	.1890	-.6520	-.4480	-.2560							.3550	.4000	.2990
90.000	1.2190	.2020	.1910	-.6590	-.4960	-.0970	-.0200	-.0530	-.1440	.0470	.0690	-.1460	.3440	.3340	.2180
135.000	1.2190	.2000	.1860	-.6550	-.4760	-.0900							.3520	.3410	.2150
180.000	1.2190	.1850	.2320	-.6270	-.4230	-.1830	.0150	-.1590	-.0180	.1120	.0550	-.2390	.2650	.2730	.1010
225.000	1.2190	.1970	.2910	-.6280	-.3830	-.1220	.0200						.1180	-.0270	-.0810
270.000	1.2190	.2670	.5710	-.3810	-.7590	-.1320	-.0250	-.1010			-.0220	-.2200	.0190	.0150	-.0240
315.000	1.2190	.4170	.4540	-.5110	-.3320	-.0770	-.0780						.2640	.3190	.1590

X/LS	.9870
PHI	
.000	.3830
45.000	.2910
90.000	.1970
135.000	.1150
180.000	.1160

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNS27)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (1) = 1.101 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0330
270.000	-.0250
315.000	.4310

MACH (2) = 1.249 BETAT (1) = -8.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3880	.5070	.4360	-.3920	-.2480	-.2310	.0090	.0660	.0370	.0160	.1090	-.1320	.1880	.3270	.2560
													.3170	.4630	.4190
45.000	1.3880	.4950	.4360	-.3690	-.2090	-.1040							.3410	.4510	.4160
90.000	1.3880	.4250	.4360	-.3850	-.2250	-.1340	-.0340	.1200	.0310	.0150	.2250	.0320	.2040	.4070	.3840
135.000	1.3880	.3250	.3160	-.4340	-.3100	-.2230							.0650	.4590	.3660
180.000	1.3880	.3170	.2440	-.4560	-.3840	-.1430	-.0030	.0850	-.0240	.2510	.3130	-.2080	.0790	.2330	.1150
225.000	1.3880	.3600	.2100	-.5090	-.3510	-.2150	.0250						.0780	.0690	.1200
270.000	1.3880	.4470	.6050	-.2350	-.3820	-.2260	.0440	.0660			-.2190	-.1660	.1020	.0850	.2090
315.000	1.3880	.5070	.4880	-.3780	-.3900	-.2020	.0510								

X/LS .9670

PHI	
.000	.1780
45.000	.2740
90.000	.3640
135.000	.3690
180.000	.3170
225.000	.2320
270.000	.2630
315.000	.2290

MACH (2) = 1.247 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3630	.4390	.4190	-.3980	-.2540	-.2390	.0050	.0220	.0170	-.0020	.0890	-.1010	.2750	.3940	.3770
													.3130	.4410	.4210
45.000	1.3630	.3580	.4020	-.3910	-.2570	-.1550							.2870	.3800	.3640
90.000	1.3630	.2680	.3440	-.4110	-.2810	-.1740	-.0330	.0820	-.0090	-.0410	.1740	.0090	.2110	.4130	.3660
135.000	1.3630	.1590	.2780	-.4360	-.3230	-.2010							.1060	.4750	.3680
180.000	1.3630	.2150	.2480	-.4360	-.3650	-.0980	-.0080	.0630	-.0700	.1480	.2070	-.2230	.1140	.2280	.0830
225.000	1.3630	.3030	.2070	-.5070	-.4320	-.2340	.0340								

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-70T IA9 OPA + SS + T9 SRM BOOSTER (RBMS27)

MACH (2) = 1.247 BETAT (2) = -4.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.aa**	.9044	.9388
PHI															
270.000	1.3830	.4130	.6000	-.2360	-.5070	-.2520	.0450	.0480			-.1210	-.1300	.0750	.0760	.0890
315.000	1.3830	.4760	.4870	-.3740	-.3880	-.2470	.0370						.1210	.1150	.1950

X/LS	.9670
PHI	
.000	.2240
45.000	.3540
90.000	.3750
135.000	.3190
180.000	.2900
225.000	.2060
270.000	.2410
315.000	.2810

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3400	.3820	.4000	-.3990	-.2700	-.2030	-.0230	-.0200	.0060	-.0230	.0470	-.0280	.3320	.4540	.4350
45.000	1.3400	.2690	.3470	-.4080	-.2920	-.1790							.2710	.3800	.3930
90.000	1.3400	.1380	.3460	-.4240	-.3130	-.1840	-.0350	.0610	-.0470	-.0800	.1100	-.0190	.2360	.3030	.3000
135.000	1.3400	.0810	.2770	-.4330	-.3310	-.1670							.2530	.4300	.3360
180.000	1.3400	.1660	.2610	-.4410	-.3630	-.1340	.0020	.0480	-.1070	.0850	.0950	-.1920	.1280	.4210	.3380
225.000	1.3400	.2990	.2550	-.4870	-.5320	-.1740	.0200						.1280	.1690	.0410
270.000	1.3400	.4070	.6290	-.2200	-.6060	-.2230	.0030	.0080			-.0220	-.1490	.0470	.1000	.0390
315.000	1.3400	.4710	.4880	-.3710	-.3780	-.2240	.0050						.2010	.2610	.1630

X/LS	.9670
PHI	
.000	.2820
45.000	.3890
90.000	.3580
135.000	.2490
180.000	.2660
225.000	.1720
270.000	.1840
315.000	.3190

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS27)

MACH (2) = 1.251 BETAT (4) = 4.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3110	.3840	.3780	-.4050	-.2530	-.1780	-.0740	-.0510	-.0130	-.0570	-.0080	.0070	.4320	.5450	.5040
													.2570	.3320	.3840
45.000	1.3110	.1620	.2770	-.4320	-.3270	-.2160							.3240	.3010	.2790
90.000	1.3110	.0730	.2790	-.4410	-.3450	-.1520	-.0360	.0220	-.0650	-.0510	.0810	-.0230	.2270	.3910	.3210
135.000	1.3110	.0290	.2520	-.4390	-.3290	-.1390							.1680	.3380	.2720
180.000	1.3110	.1880	.2420	-.4450	-.3300	-.0970	-.0600	.0070	-.1400	.0570	.0780	-.1520	.1120	.1490	.0250
225.000	1.3110	.2700	.2620	-.4770	-.5220	-.0560	-.0930						.0190	.0670	.0200
270.000	1.3110	.3800	.6300	-.2160	-.6190	-.1260	-.0950	-.0090			.0070	-.1360	.2700	.2910	.1290
315.000	1.3110	.4640	.4990	-.3580	-.3380	-.1450	-.0480								

X/LS	.9670
PHI	
.000	.2720
45.000	.4440
90.000	.3470
135.000	.2290
180.000	.2510
225.000	.1350
270.000	.1720
315.000	.3200

MACH (2) = 1.248 BETAT (5) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2740	.3280	.3510	-.4230	-.2260	-.1630	-.1510	-.0550	.0210	-.0390	-.0030	-.0640	.4690	.5540	.5420
													.2970	.4170	.3670
45.000	1.2740	.1370	.2040	-.4670	-.3670	-.2330							.3120	.3790	.2880
90.000	1.2740	.0490	.2050	-.4660	-.3610	-.1100	-.0670	-.0320	-.0840	-.0100	.0530	-.0620	.2150	.3750	.2780
135.000	1.2740	.0930	.2020	-.4530	-.3370	-.1020							.1550	.3360	.2280
180.000	1.2740	.1430	.2440	-.4460	-.3230	-.1020	-.1690	-.0350	-.1470	.0840	.0520	-.1720	.0780	.0320	-.0670
225.000	1.2740	.2020	.2920	-.4630	-.4840	-.0020	-.1440						-.0050	.0480	-.0720
270.000	1.2740	.3190	.6320	-.2110	-.6020	-.0310	-.2680	-.0270			-.0420	-.2030	.2380	.3280	.0340
315.000	1.2740	.4350	.5100	-.3440	-.2860	-.0100	-.1110								

X/LS	.9670
PHI	
.000	.3370
45.000	.4420
90.000	.2930
135.000	.2000
180.000	.1840

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNS27)

AMES 11-707 IA9 CEA + S9 + T9 SRM BOOSTER

MACH (2) = 1.248 BETAT (5) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9879

PHI	
225.000	.5660
270.000	.5200
315.000	.4190

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBHS28) (27 APR 73)

AMES 11-7ft IA9 OEA + S3 + T9 SRM BOOSTER

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.099 BETAT (1) = -8.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2870	.5850	.3810	-.5850	-.3020	-.1630	.0570	.0790	.0340	.0880	.1340	-.1800	.3820	.4520	.3380
													.4920	.5900	.4670
45.000	1.2870	.5670	.3880	-.5620	-.2920	-.1400							.3950	.5080	.4050
90.000	1.2870	.4510	.3470	-.5950	-.3470	-.1940	.0570	.0710	-.0330	.1530	.2180	-.0620	.2630	.3550	.2710
135.000	1.2870	.3180	.1910	-.6600	-.4730	-.0690							.2060	.3180	.1920
180.000	1.2870	.2990	.1360	-.6750	-.5480	-.0380	.0740	.0300	-.0040	.2410	.2250	-.3250	.1660	.1730	.0800
225.000	1.2870	.3090	.0670	-.7450	-.3440	-.1910	.0360						.1010	.1500	.2520
270.000	1.2870	.4080	.4500	-.4500	-.3550	-.2010	.0580	.0720			-.0200	-.1710	.1480	.1630	.2550
315.000	1.2870	.5410	.4270	-.5560	-.4950	-.0460	.0610								

X/LS	.9670
PHI	
.000	.2180
45.000	.2660
90.000	.3540
135.000	.3080
180.000	.1930
225.000	.0980
270.000	.2330
315.000	.2010

MACH (1) = 1.098 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2810	.3990	.3810	-.5800	-.2830	-.1020	.0170	.0890	.0230	-.0020	.1100	-.0740	.4490	.5330	.4270
													.4750	.5690	.4510
45.000	1.2810	.4910	.3420	-.5840	-.3410	-.1810							.3230	.3970	.3430
90.000	1.2810	.3690	.2990	-.6200	-.4090	-.2240	.0970	.0360	-.0850	.0460	.1740	-.0690	.2760	.3220	.2480
135.000	1.2810	.2790	.1830	-.6570	-.4930	-.0650							.3020	.3690	.2140
180.000	1.2810	.2780	.1470	-.6470	-.5450	-.0520	.0960	.0120	-.0680	.1710	.1970	-.2650	.2110	.1700	.0720
225.000	1.2810	.2690	.0750	-.7370	-.4040	-.1980	.0620						.1130	.1730	.1840
270.000	1.2810	.3980	.4530	-.4450	-.4000	-.2090	.0350	.0410			-.0480	-.1380	.2100	.2380	.2470
315.000	1.2810	.5400	.4440	-.5410	-.4690	-.0420	.0030								

X/LS	.9670

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + S3 + T9 SRM BOOSTER (RBHS20)

MACH (1) = 1.090 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.2880
45.000	.3390
90.000	.3480
135.000	.2610
180.000	.1520
225.000	.1100
270.000	.2180
315.000	.2740

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2890	.5260	.3790	-.5800	-.2460	-.0740	-.0280	.0510	-.0040	-.0560	.0790	-.0340	.5140	.5640	.4800
45.000	1.2890	.4200	.2990	-.6060	-.3690	-.1940							.4270	.5110	.4070
90.000	1.2890	.3230	.2990	-.6370	-.4450	-.2050	.0460	.0060	-.1260	.0030	.1380	-.0860	.2850	.3150	.2580
135.000	1.2890	.2750	.1980	-.6530	-.4910	-.0480							.3380	.3290	.2290
180.000	1.2890	.2580	.1750	-.6550	-.5170	-.0550	.0940	-.0270	-.0860	.1150	.1390	-.2440	.3740	.3680	.2050
225.000	1.2890	.2710	.1100	-.7270	-.4570	-.1760	.0730						.2230	.1430	.0580
270.000	1.2890	.3890	.4720	-.4360	-.4650	-.2460	.0290	-.0080			-.0250	-.1110	.1170	.1930	.1540
315.000	1.2890	.5380	.4840	-.5210	-.4270	-.0380	-.0150						.2960	.3420	.2270

X/LS .9670

PHI	
.000	.3440
45.000	.3830
90.000	.3140
135.000	.1930
180.000	.1310
225.000	.1000
270.000	.1890
315.000	.3300

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMS20)

MACH (1) = 1.102 BETAT (4) = 4.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2430	.4930	.3670	-.5740	-.2250	-.1360	-.1090	.0290	-.0440	-.0740	.0400	-.0390	.5480	.5860	.4950
45.000	1.2430	.3470	.2410	-.6300	-.3960	-.2450							.3940	.4560	.3390
90.000	1.2430	.2590	.2390	-.6530	-.4850	-.1960	.0160	-.0300	-.1570	.0370	.0790	-.1080	.2840	.2900	.2140
135.000	1.2430	.2440	.1860	-.6550	-.4990	-.0830							.3660	.3830	.2560
180.000	1.2430	.2300	.1880	-.6490	-.4820	-.1040	.0700	-.0850	-.1120	.0960	.0940	-.2560	.2800	.2990	.1610
225.000	1.2430	.2230	.1490	-.7010	-.7230	-.1260	.0430						.2070	.1380	.0490
270.000	1.2430	.3260	.4960	-.4200	-.8180	-.4260	-.0050	-.0500			.0040	-.1490	.0780	.1370	.1610
315.000	1.2430	.5080	.4860	-.4820	-.3730	-.0510	-.0570						.3620	.3140	.1840

X/LS	.9670
PHI	
.000	.3300
45.000	.3880
90.000	.2570
135.000	.1340
180.000	.1480
225.000	.0620
270.000	.1590
315.000	.3330

MACH (1) = 1.099 BETAT (3) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1980	.3940	.3790	-.5630	-.1960	-.1800	-.1840	-.0150	-.0340	-.0910	.0150	-.0360	.5620	.6110	.5300
45.000	1.1980	.2120	.1730	-.6830	-.4310	-.3220							.3310	.3770	.2690
90.000	1.1980	.1530	.1720	-.6730	-.5150	-.1370	-.0470	-.1140	-.1490	.0130	.0460	-.1140	.3140	.2870	.1720
135.000	1.1980	.1350	.1630	-.6470	-.5050	-.0550							.3490	.3640	.2370
180.000	1.1980	.0840	.1910	-.6460	-.4820	-.1300	.0210	-.1340	-.0120	.0990	.0470	-.2410	.2730	.2540	.0990
225.000	1.1980	.0700	.1910	-.6790	-.6590	-.1160	-.0130						.1390	-.0050	-.0640
270.000	1.1980	.1960	.5000	-.4100	-.7070	-.3360	-.0570	-.1120			-.0110	-.2040	.0580	.0080	-.0280
315.000	1.1980	.4500	.5140	-.4550	-.2300	-.0980	-.0580						.3300	.3410	.0430

X/LS	.9670
PHI	
.000	.3850
45.000	.4130
90.000	.1980
135.000	.0850
180.000	.1360

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS29)

MACH (1) = 1.099 BETAT (5) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0300
270.000	-.0140
315.000	.4270

MACH (2) = 1.248 BETAT (1) = -8.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3720	.5720	.4780	-.3770	-.2080	-.1870	.0190	.0680	.0560	.0310	.1450	-.0900	.2660	.4020	.3310
45.000	1.3720	.5340	.4740	-.3610	-.1880	-.0850							.3750	.5190	.4620
90.000	1.3720	.4050	.4110	-.3960	-.2390	-.1500	-.1330	.0300	.0230	.0300	.2530	.0620	.3400	.4170	.3740
135.000	1.3720	.2820	.2610	-.4570	-.3450	-.2340							.2180	.2620	.3060
180.000	1.3720	.2820	.1900	-.4750	-.3250	-.1970	-.0420	.0610	.0000	.2270	.3100	-.1880	.0630	.3760	.3080
225.000	1.3720	.3160	.1150	-.4670	-.3190	-.2620	-.0110						.0920	.2810	.1140
270.000	1.3720	.4200	.5550	-.2550	-.3480	-.2750	.0070	.1020			-.1920	-.1600	.0890	.1130	.1130
315.000	1.3720	.5420	.5310	-.3530	-.3410	-.1720	.0500						.1260	.1120	.2260

X/LS .9670

PHI	
.000	.2070
45.000	.3280
90.000	.4080
135.000	.3460
180.000	.2470
225.000	.1770
270.000	.2780
315.000	.2490

MACH (2) = 1.251 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3530	.5080	.4810	-.3750	-.2220	-.1870	.0140	.0310	.0300	.0060	.1070	-.0520	.3280	.4490	.4150
45.000	1.3530	.4110	.4150	-.3820	-.2360	-.1420							.3470	.4690	.4410
90.000	1.3530	.2670	.4140	-.4180	-.2950	-.1990	-.0640	.0120	-.0140	-.0530	.2090	.0260	.2770	.3350	.3120
135.000	1.3530	.1290	.2270	-.4550	-.3620	-.2340							.2550	.3390	.3080
180.000	1.3530	.1930	.1730	-.4550	-.3810	-.1740	-.0360	.0750	-.0490	.1480	.2850	-.2050	.1350	.5180	.3100
225.000	1.3530	.2500	.0900	-.3470	-.4040	-.3110	.0100						.1360	.2660	.0870

DATE 24 SEP 93 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + S3 + T9 SRM BOOSTER (RBHS29)

MACH (2) = 1.291 BETAT (2) = -4.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3530	.3780	.5920	-.2550	-.4230	-.3000	-.0020	.0660			-.0850	-.1190	.0830	.0990	.0880
315.000	1.3530	.3110	.5370	-.3430	-.3330	-.1760	.0330						.1400	.1440	.2020

X/LS	.9670
PHI	
.000	.2480
45.000	.3830
90.000	.3990
135.000	.2770
180.000	.2150
225.000	.1670
270.000	.2110
315.000	.2820

MACH (2) = 1.249 BETAT (3) = .010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3260	.4560	.4410	-.3860	-.2130	-.1570	-.0370	-.0220	.0130	-.0180	.0400	.0040	.4010	.5250	.4850
45.000	1.3260	.3050	.3480	-.4100	-.2820	-.1810							.2970	.4120	.4160
90.000	1.3260	.1520	.3080	-.4390	-.3240	-.2120	-.0620	.0370	-.0520	-.0690	.1370	-.0200	.2610	.2910	.2760
135.000	1.3260	.0430	.2330	-.4520	-.3530	-.2300							.3400	.3740	.2870
180.000	1.3260	.1250	.2090	-.4570	-.3690	-.1760	.0040	.0640	-.0840	.0910	.1530	-.1640	.1360	.5190	.2840
225.000	1.3260	.2090	.1510	-.5360	-.4740	-.3240	.0040						.1380	.1860	.0480
270.000	1.3260	.3440	.5750	-.2450	-.5360	-.3240	-.0620	.0160			.0140	-.1250	.0740	.1240	.0500
315.000	1.3260	.4970	.5400	-.3400	-.3180	-.1220	.0040						.2420	.3060	.1890

X/LS	.9670
PHI	
.000	.3160
45.000	.4270
90.000	.3740
135.000	.2230
180.000	.2160
225.000	.1570
270.000	.1760
315.000	.2960

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA94

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS20)

MACH (2) = 1.245 BETAT (4) = 4.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2920	.4340	.4140	-.3960	-.1920	-.1330	-.1020	-.0510	-.0150	-.0440	-.0120	.0200	.4960	.5550	.5340
45.000	1.2920	.2340	.2670	-.4430	-.3300	-.2200							.2850	.4040	.3950
90.000	1.2920	.0610	.2370	-.4610	-.3670	-.2140	-.0620	.0070	-.0860	-.0610	.1200	-.0490	.3020	.3480	.2800
135.000	1.2920	-.0140	.2030	-.4610	-.3670	-.1400							.2940	.4420	.3090
180.000	1.2920	.1100	.1900	-.4700	-.3930	-.1220	-.0210	.0250	-.1070	.0610	.1480	-.1580	.1790	.3390	.2490
225.000	1.2920	.1620	.1490	-.5340	-.4970	-.1910	-.0380						.1270	.1330	.0340
270.000	1.2920	.3130	.5700	-.2470	-.6060	-.3330	-.1440	-.0180			.0200	-.1210	.0330	.0800	.0300
315.000	1.2920	.4990	.5460	-.3330	-.2760	-.0630	-.0300						.2940	.2880	.1380

X/LS	.9670
PHI	
.000	.3080
45.000	.4540
90.000	.3410
135.000	.2080
180.000	.2340
225.000	.1350
270.000	.1430
315.000	.3250

MACH (2) = 1.245 BETAT (5) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2940	.3800	.3880	-.4130	-.1680	-.1320	-.1820	-.0380	.0420	-.0270	-.0200	-.0310	.4580	.6130	.5980
45.000	1.2940	.1450	.1880	-.4720	-.3800	-.2710							.2920	.3780	.3410
90.000	1.2940	.0390	.1830	-.4830	-.3930	-.1490	-.0890	-.0510	-.0920	-.0290	.0450	-.0780	.3030	.3370	.2990
135.000	1.2940	.0910	.1630	-.4620	-.3540	-.0780							.2290	.3690	.2390
180.000	1.2940	.0830	.1700	-.4760	-.3630	-.0950	-.1020	-.0210	-.0990	.0800	.0470	-.1660	.1840	.3480	.1840
225.000	1.2940	.0950	.1730	-.5250	-.4670	-.0480	-.1310						.0860	.0210	-.0390
270.000	1.2940	.2630	.5760	-.2340	-.5920	-.3560	-.3120	-.0510			-.0160	-.1690	.0090	.0310	-.0480
315.000	1.2940	.4750	.5570	-.2940	-.2090	-.0070	-.0750						.2620	.3830	.0290

X/LS	.9670
PHI	
.000	.3970
45.000	.4930
90.000	.2850
135.000	.1670
180.000	.1720

DATE 26 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMS20)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (2) = 1.245 BETAT (5) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.0840
270.000	.0130
315.000	.9010

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM529) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -10.000 ZLEVON = .000
RUDFLR = .000

MACH (1) = 1.098 BETAT (1) = -8.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2830	.6380	.4140	-.3630	-.2530	-.0670	.0300	.0960	.0510	.1000	.1610	-.1240	.4520	.4870	.3770
45.000	1.2830	.5840	.3960	-.5530	-.2690	-.1330							.3590	.6060	.4620
90.000	1.2830	.4030	.3090	-.6100	-.3660	-.2350	-.0300	.0240	-.0620	.1470	.2410	-.0490	.3980	.4700	.3540
135.000	1.2830	.2510	.1320	-.6830	-.5150	-.2160							.2140	.2600	.1830
180.000	1.2830	.2470	.0810	-.6890	-.3780	-.1780	.0210	.0520	.0080	.2390	.2310	-.3130	.1990	.2390	.1390
225.000	1.2830	.2490	-.0340	-.3730	-.4080	-.2500	.0430						.2310	.1950	.0760
270.000	1.2830	.3950	.3820	-.4720	-.4340	-.2670	-.0200	.0840			.0220	-.1600	.1080	.1500	.2000
315.000	1.2830	.5580	.4860	-.5300	-.4360	.0010	.0240						.1790	.1780	.2550

X/LS	.9670
PHI	
.000	.2270
45.000	.2930
90.000	.3690
135.000	.2780
180.000	.1180
225.000	.0500
270.000	.2410
315.000	.2240

MACH (1) = 1.098 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2570	.6170	.4130	-.3600	-.2170	-.0220	-.0130	.0920	.0370	.0120	.1150	-.0410	.5100	.3620	.4620
45.000	1.2570	.5020	.3420	-.5790	-.3210	-.1700							.5260	.5780	.4510
90.000	1.2570	.3200	.2490	-.6350	-.4230	-.2710	-.0480	.0030	-.1210	.0120	.1910	-.0700	.3170	.3650	.2850
135.000	1.2570	.2220	.1330	-.6790	-.5320	-.1710							.2430	.2470	.1640
180.000	1.2570	.2300	.0930	-.6690	-.4030	-.1480	.0730	.0140	-.0590	.1570	.2310	-.2740	.3830	.3930	.1710
225.000	1.2570	.2240	-.0410	-.4380	-.4670	-.2720	.0530						.2520	.1890	.0580
270.000	1.2570	.3440	.3830	-.4680	-.4740	-.3240	-.0040	.0510			-.0200	-.1270	.1140	.1750	.1680
315.000	1.2570	.5620	.4850	-.5060	-.4040	.0020	.0090						.2350	.2730	.2510

X/LS	.9670

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBMS29)

MACH (1) = 1.096 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.2990
45.000	.3680
90.000	.3540
135.000	.2190
180.000	.0820
225.000	.0810
270.000	.2240
315.000	.2840

MACH (1) = 1.096 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9366
PHI															
.000	1.2410	.5780	.4090	-.5570	-.1850	-.0290	-.0490	.0550	.0070	-.0450	.0680	-.0040	.5840	.6160	.5060
													.4700	.5210	.3910
45.000	1.2410	.4130	.2920	-.6050	-.3500	-.1860							.3080	.2970	.2030
90.000	1.2410	.2420	.2160	-.6510	-.4600	-.2760	-.0200	-.0230	-.1550	-.0260	.1460	-.0780	.3360	.2450	.1330
135.000	1.2410	.1910	.1380	-.6670	-.5220	-.1140							.4590	.3580	.1660
180.000	1.2410	.2100	.1160	-.6680	-.4400	-.1170	.0940	-.0140	-.0550	.1300	.1670	-.2230	.2700	.1540	.0450
225.000	1.2410	.1880	-.0160	-.5580	-.5230	-.2910	.0330						.1200	.2020	.1460
270.000	1.2410	.3190	.3900	-.4610	-.4870	-.4310	.0120	.0070			-.0200	-.1020	.3320	.3530	.2310
315.000	1.2410	.5560	.5050	-.4710	-.3600	-.0050	.0040								

X/LS .9670

PHI	
.000	.3590
45.000	.4060
90.000	.3040
135.000	.1450
180.000	.0350
225.000	.0350
270.000	.1630
315.000	.3260

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 SRM BOOSTER (RBHS29)

MACH (1) = 1.090 , BETAT (4) = 4.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2110	.3520	.4090	-.5350	-.1520	-.0990	-.1250	.0060	-.0320	-.0820	.0310	-.0170	.5710	.6170	.5210
45.000	1.2110	.3380	.2260	-.6290	-.3520	-.2630							.3910	.4280	.3060
90.000	1.2110	.1870	.1580	-.6700	-.4980	-.2840	-.0210	-.0450	-.1750	.0070	.0880	-.0990	.2750	.2840	.1640
135.000	1.2110	.1690	.1330	-.6660	-.5250	-.1010							.3370	.2840	.1320
180.000	1.2110	.1570	.1240	-.6590	-.5340	-.0770	.0790	-.0500	-.0700	.0970	.1130	-.2360	.3620	.3250	.1550
225.000	1.2110	.1150	.0080	-.7540	-.6380	-.2350	-.0200						.2160	.1180	.0220
270.000	1.2110	.2310	.4000	-.4520	-.7590	-.5610	-.0010	-.0530			.0150	-.1170	.1250	.1350	.0730
315.000	1.2110	.5390	.5360	-.4210	-.2750	-.0230	-.0170						.3840	.3580	.1620

X/LS	.9670
PHI	
.000	.3720
45.000	.4170
90.000	.2410
135.000	.0880
180.000	.0460
225.000	.0470
270.000	.1130
315.000	.3500

MACH (1) = 1.090 BETAT (5) = 8.310

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1750	.5000	.3880	-.5200	-.1490	-.1670	-.1830	-.0520	-.0340	-.0960	.0040	-.0170	.6090	.6310	.5390
45.000	1.1750	.2380	.1420	-.6670	-.3860	-.3740							.3510	.3710	.2540
90.000	1.1750	.1210	.1090	-.6850	-.5200	-.2420	-.0860	-.1170	-.1380	-.0040	.0330	-.0960	.2710	.2420	.1190
135.000	1.1750	.1230	.1340	-.6650	-.5220	-.0730							.3460	.3300	.1860
180.000	1.1750	.0820	.1390	-.6560	-.5150	-.0770	.0250	-.1110	-.0120	.0910	.0530	-.2370	.3290	.2320	.0770
225.000	1.1750	.0260	.0480	-.7270	-.6400	-.1620	-.0850						.1730	.0360	-.0460
270.000	1.1750	.1810	.4030	-.4450	-.7000	-.5970	-.1110	-.1520			-.0030	-.1650	.0830	.0260	-.0380
315.000	1.1750	.5370	.5590	-.3900	-.1580	-.0730	-.0460						.3600	.3470	.0920

X/LS	.9670
PHI	
.000	.3830
45.000	.4240
90.000	.1730
135.000	.0490
180.000	.0[illegible]

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNS29)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (1) = 1.098 BETAT (5) = 8.310

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0080
270.000	-.0110
315.000	.4520

MACH (2) = 1.247 BETAT (1) = -8.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3530	.6330	.5110	-.3660	-.1640	-.1360	.0470	.0600	.0800	.0470	.1760	-.0590	.3470	.4870	.4080
45.000	1.3530	.5700	.4660	-.3640	-.1740	-.0730							.4300	.5800	.5110
90.000	1.3530	.3830	.4210	-.3990	-.2510	-.1730	-.1840	-.0250	.0020	.0280	.2810	.0750	.3580	.4180	.3520
135.000	1.3530	.2440	.2010	-.4820	-.3850	-.2880							.2160	.2040	.2240
180.000	1.3530	.2530	.1350	-.4950	-.3400	-.2370	-.0670	.0490	.0040	.2090	.3070	-.1670	.0900	.3410	.2230
225.000	1.3530	.2710	.0120	-.3840	-.3700	-.3110	-.0150						.1160	.3200	.1520
270.000	1.3530	.3860	.4950	-.2820	-.3870	-.3020	-.0910	.0760			-.1390	-.1510	.1090	.1550	.1210
315.000	1.3530	.5750	.5680	-.3330	-.2970	-.1180	.0700						.1590	.1620	.2500

X/LS .9670

PHI	
.000	.2450
45.000	.3710
90.000	.4490
135.000	.3220
180.000	.1730
225.000	.1230
270.000	.2630
315.000	.2740

MACH (2) = 1.249 BETAT (2) = -4.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3330	.3710	.3010	-.3660	-.1640	-.1410	.0200	.0090	.0420	.0170	.1130	-.0200	.3910	.5140	.4740
45.000	1.3330	.4500	.4210	-.3830	-.2250	-.1410							.3660	.4960	.4720
90.000	1.3330	.2450	.3700	-.4370	-.3160	-.2360	-.1950	-.0820	-.0410	-.0850	.2290	.0250	.3080	.3910	.2770
135.000	1.3330	.0900	.1730	-.4780	-.4050	-.2650							.2770	.2680	.2320
180.000	1.3330	.1650	.1180	-.4820	-.3640	-.2870	-.0590	.0620	-.0450	.1380	.3120	-.1870	.1370	.5020	.2290
225.000	1.3330	.1880	-.0230	-.4690	-.4260	-.3610	-.0010						.1620	.3040	.0890

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 OEA + S3 + T9 SRN BOOSTER (RBNS29)

MACH (2) = 1.249 BETAT (2) = -4.040

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3330	.3270	.4870	-.2790	-.4380	-.3450	-.0740	.0650			-.0750	-.1010	.1090	.1200	.0820
315.000	1.3330	.5420	.5760	-.3210	-.2840	-.1100	.0380						.1660	.1910	.2170

X/LS	.9670
PHI	
.000	.2900
45.000	.4240
90.000	.4180
135.000	.2480
180.000	.1550
225.000	.1500
270.000	.2500
315.000	.3290

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)SRN BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3030	.5230	.4750	-.3710	-.1490	-.1010	-.0380	-.0380	.0040	-.0220	.0350	.0310	.4620	.5840	.5160
45.000	1.3030	.3420	.3390	-.4130	-.2790	-.1830							.3050	.4380	.4240
90.000	1.3030	.1270	.2430	-.4990	-.3520	-.2570	-.1850	-.0280	-.0720	-.0960	.1500	-.0120	.2670	.2830	.2410
135.000	1.3030	.0070	.1770	-.4700	-.3860	-.2670							.3320	.2900	.2040
180.000	1.3030	.0910	.1500	-.4720	-.4150	-.2680	.0120	.0700	-.0590	.1000	.2210	-.1580	.1740	.5310	.2030
225.000	1.3030	.1240	.0230	-.5840	-.4990	-.3960	-.0410						.1620	.2100	.0920
270.000	1.3030	.2790	.4990	-.2720	-.5850	-.3840	-.0670	.0370			.0310	-.1050	.0840	.1410	.0390
315.000	1.3030	.5330	.5840	-.3100	-.2580	-.0710	.0130						.2740	.3220	.2040

X/LS	.9670
PHI	
.000	.3240
45.000	.4570
90.000	.3770
135.000	.2040
180.000	.1390
225.000	.1400
270.000	.1810
315.000	.3180

DATE 24 SEP 93 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS29)

MACH (2) = 1.249 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2710	.4930	.4500	-.3810	-.1250	-.0830	-.1050	-.0860	-.0280	-.0250	-.0270	.0290	.4840	.5720	.5510
45.000	1.2710	.2570	.2530	-.4480	-.3200	-.2300							.2990	.4090	.3740
90.000	1.2710	.0360	.1730	-.4800	-.3860	-.2720	-.1030	-.0280	-.0800	-.0670	.0960	-.0280	.2960	.2970	.2130
135.000	1.2710	-.0350	.1550	-.4740	-.3820	-.1810							.2940	.3620	.2210
180.000	1.2710	.0620	.1290	-.4830	-.4200	-.1620	.0030	.0360	-.0840	.0610	.1490	-.1390	.2190	.3730	.2220
225.000	1.2710	.0670	.0230	-.5870	-.5350	-.3220	-.1140						.1510	.1110	.0130
270.000	1.2710	.2510	.5020	-.2630	-.5950	-.3800	-.1070	-.0140			.0280	-.1160	.0350	.0820	.0200
315.000	1.2710	.5320	.5860	-.2950	-.2100	-.0160	-.0250						.3040	.2960	.1390

X/LS	.9670
PHI	
.000	.3210
45.000	.4770
90.000	.3310
135.000	.1650
180.000	.1550
225.000	.1350
270.000	.1560
315.000	.4070

MACH (2) = 1.246 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2300	.4590	.4200	-.3880	-.1140	-.0940	-.1750	-.1240	.0130	-.0430	-.0270	.0020	.4940	.6560	.6090
45.000	1.2300	.1670	.1680	-.4930	-.3470	-.3010							.2200	.3560	.3290
90.000	1.2300	-.0350	.1550	-.5040	-.4330	-.2480	-.1300	-.0930	-.0840	-.0410	.0360	-.0740	.2800	.2930	.2070
135.000	1.2300	.0550	.1240	-.4850	-.3920	-.0990							.2540	.3710	.2360
180.000	1.2300	.0370	.1120	-.4950	-.4370	-.1040	-.0580	-.0090	-.0840	.0130	.0630	-.1820	.2030	.3330	.2130
225.000	1.2300	.0140	.0440	-.5860	-.5490	-.2250	-.1740						.0990	.0020	-.0460
270.000	1.2300	.2290	.5000	-.2560	-.5500	-.4240	-.2260	-.0570			.0030	-.1760	.0100	-.0040	-.0500
315.000	1.2300	.5340	.5930	-.2520	-.1310	.0380	-.0500						.3530	.3620	.0250

X/LS	.9670
PHI	
.000	.4180
45.000	.5110
90.000	.2790
135.000	.1320
180.000	.1440

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBM529)

AMES 11-7D7 IA9 O2A + S3 + T3 SRM BOOSTER

MACH (2) = 1.246 BETAT (5) = 0.290

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9875

PHI	
225.000	.0530
270.000	.0010
315.000	.0530

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNS30) (27 APR 73)

AMES 11-707 IA9 C2A + S3 + T9 SRM BOOSTER

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2900	.2510	.0730	-.6900	-.5970	-.3120	-.1830	-.1800	-.2170	-.0770	-.1030	-.3210	.0360	.0090	-.0740
45.000	1.2900	.2620	.0730	-.6890	-.5160	-.3560							-.0900	.1640	.0770
90.000	1.2900	.4270	.1170	-.6120	-.3470	-.1470	-.2700	-.3760	-.3270	-.1250	-.2740	-.3700	.0520	.5260	.3690
135.000	1.2900	.6230	.4160	-.5410	-.1850	.0850							.1880	.7600	.5100
180.000	1.2900	.6930	.4690	-.5120	-.0190	.2000	.1240	-.0430	-.0260	.2120	-.0110	-.4120	.1440	.6360	.3270
225.000	1.2900	.6050	.5260	-.4730	-.2880	.1930	.1370						.0000	.1280	-.0690
270.000	1.2900	.3810	.3470	-.4840	-.7960	-.4820	-.0930	-.1880			-.1790	-.3030	-.1080	-.1210	.0200
315.000	1.2900	.2580	-.0640	-.7900	-.8050	-.3670	-.0730						-.0480	-.0360	.0200

X/LS	.9670
PHI	
.000	-.1040
45.000	-.0340
90.000	-.0130
135.000	.2860
180.000	.3710
225.000	.1810
270.000	.0420
315.000	.0020

MACH (1) = 1.102 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2930	.2250	.0670	-.6950	-.6050	-.2100	-.1230	-.1780	-.2670	-.1710	-.1070	-.2710	.0430	.0560	.0230
45.000	1.2930	.2220	.0670	-.6790	-.5460	-.3460							-.0650	.1280	.1100
90.000	1.2930	.3450	.1030	-.6470	-.4050	-.2230	-.3430	-.3030	-.3650	-.1620	-.3060	-.3670	.0370	.4840	.3380
135.000	1.2930	.5610	.3610	-.5740	-.1890	-.0070							.1710	.6980	.4550
180.000	1.2930	.6960	.4710	-.4960	.0080	.1510	.0480	-.1040	-.1200	.1480	-.0910	-.3670	.1750	.5740	.3400
225.000	1.2930	.6250	.5530	-.4340	-.2330	.1690	.0730						.0650	.0790	-.0930
270.000	1.2930	.3590	.3100	-.5000	-.7740	-.4980	-.2190	-.2020			-.0860	-.2590	-.1070	-.0750	.0680
315.000	1.2930	.2140	-.1080	-.8110	-.7590	-.3240	-.1670						.0560	.0720	.0830

X/LS	.9670

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + 83 + 79 SRM BOOSTER (RBM530)

MACH (1) = 1.102 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
.000	.0550
45.000	.0050
90.000	.0330
135.000	.2050
180.000	.3130
225.000	.1790
270.000	.0590
315.000	.1020

MACH (1) = 1.102 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2080	.2110	.0770	-.6900	-.5960	-.2250	-.0940	-.1310	-.1370	-.0230	-.0870	-.3610	.1310	.1340	.1310
45.000	1.2080	.2080	.0940	-.6830	-.5580	-.3250							.0480	.0890	.1520
90.000	1.2080	.2790	.0960	-.6790	-.4450	-.2920	-.4120	-.3510	-.3560	-.1730	-.2480	-.2710	.0360	.3650	.3050
135.000	1.2080	.4990	.2890	-.6040	-.1840	-.1160							.1440	.5900	.3890
180.000	1.2080	.7050	.4690	-.4890	-.0180	.0940	-.0270	-.2040	-.1970	.0660	-.1910	-.3850	.1940	.5020	.2890
225.000	1.2080	.6630	.5790	-.3880	-.0760	.1450	.0660						.0800	-.0280	-.1290
270.000	1.2080	.3480	.2670	-.5110	-.6990	-.5200	-.0540	-.1330			-.0660	-.2640	-.1510	-.1110	.0050
315.000	1.2080	.1880	-.1190	-.8170	-.7910	-.5440	-.0490						.1560	.1260	.1610

X/LS .9870

PHI	
.000	.1210
45.000	.0750
90.000	.0940
135.000	.1910
180.000	.2640
225.000	.1540
270.000	.0510
315.000	.2820

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A (RBNS3D)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (1) = 1.100 BETAT (4) = 4.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1900	.1090	.0770	-.6820	-.5820	-.1490	-.0870	-.0810	-.1200	.0030	-.0510	-.2690	.4340	.4550	.3880
45.000	1.1900	.1480	.0900	-.6840	-.5700	-.3040							.1330	.1940	.1950
90.000	1.1900	.1960	.0910	-.7020	-.4620	-.4100	-.3080	-.3430	-.2570	-.0410	-.1520	-.0760	.0450	.1440	.2510
135.000	1.1900	.4060	.2100	-.6420	-.2490	-.2480							.0900	.5010	.2950
180.000	1.1900	.6550	.4650	-.4470	-.0110	.0650	-.1040	-.3170	-.2320	-.0010	-.2390	-.3700	.2740	.4270	.2240
225.000	1.1900	.5890	.6460	-.3110	.1050	.1790	.0310						.0700	-.0580	-.1210
270.000	1.1900	.1740	.2610	-.5110	-.5150	-.5280	-.1560	-.1580			-.1000	-.2460	-.1500	-.1250	-.0190
315.000	1.1900	.0220	-.0930	-.8020	-.7560	-.5540	-.1570						.1000	.1600	.1670

X/LS	.9670
PHI	
.000	.2360
45.000	.3050
90.000	.1390
135.000	.1700
180.000	.2030
225.000	.1340
270.000	-.0040
315.000	.2720

MACH (1) = 1.102 BETAT (5) = 8.310

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1990	.0910	.0830	-.6800	-.5740	-.1320	-.1060	-.0460	-.1100	.0200	-.0180	-.3280	.4400	.5550	.4370
45.000	1.1990	.1280	.0820	-.6790	-.5630	-.2390							.4070	.4110	.2580
90.000	1.1990	.1430	.0820	-.7200	-.4590	-.4660	-.2580	-.3370	-.3090	.0000	-.1480	-.2650	.1160	.2180	.1970
135.000	1.1990	.3400	.1190	-.6810	-.3370	-.5120							.0780	.2540	.2100
180.000	1.1990	.6530	.4390	-.4520	-.0680	-.3000	-.1650	-.4130	-.0990	-.0110	-.2360	-.3080	.3390	.1610	.0890
225.000	1.1990	.6300	.6860	-.2570	.1020	-.1880	.0290						.0530	-.2120	-.1840
270.000	1.1990	.1680	.2320	-.5090	-.5230	-.6770	-.4450	-.1650			-.0960	-.2650	-.1340	-.1790	-.1370
315.000	1.1990	-.0070	-.0890	-.7970	-.7470	-.5700	-.1120						.0920	.1650	-.0200

X/LS	.9670
PHI	
.000	.2200
45.000	.3310
90.000	.1630
135.000	.1180
180.000	.1400

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A (RBM530)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (1) = 1.102 BETAT (5) = 8.310

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0770
270.000	-.1080
315.000	.2530

MACH (2) = 1.144 BETAT (1) = -8.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3420	.2540	.1420	-.5090	-.4450	-.4320	-.2710	-.2860	-.4650	-.2160	-.0750	-.2390	.0290	.0400	.0340
													-.0350	.0640	.1150
45.000	1.3420	.2470	.1990	-.4340	-.3930	-.3050							.0000	.3490	.4090
90.000	1.3420	.3950	.2000	-.4280	-.2550	-.1270	-.1580	-.2690	-.4060	-.2190	-.2490	-.2950	.0460	.5500	.5970
135.000	1.3420	.5830	.4990	-.3720	-.1390	.0620							-.0050	.2880	.4780
180.000	1.3420	.6470	.5390	-.3540	-.0570	.2010	.1900	.0850	-.0770	-.0470	.0790	-.3380	-.0230	.0770	.0840
225.000	1.3420	.5850	.5910	-.3230	-.2220	.2270	.1890						-.0960	-.1270	.0130
270.000	1.3420	.4000	.4870	-.2970	-.6250	-.3370	-.3370	-.0880			-.1640	-.2740	-.0400	-.0340	.0070
315.000	1.3420	.2770	.0100	-.6110	-.6880	-.5860	-.1080								

X/LS .9670

PHI	
.000	.0490
45.000	.0190
90.000	.0340
135.000	.2730
180.000	.4350
225.000	.2770
270.000	.0550
315.000	.0490

MACH (2) = 1.245 BETAT (2) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3200	.1780	.1220	-.4920	-.4460	-.3470	-.1790	-.1810	-.2720	-.3320	-.0880	-.2600	.0310	.0290	.0170
													-.0420	.0070	.1080
45.000	1.3200	.1280	.1640	-.4810	-.4120	-.2990							-.0300	.1480	.3820
90.000	1.3200	.2820	.1700	-.4480	-.3110	-.1910	-.2250	-.3600	-.4350	-.2680	-.2410	-.2790	.0260	.2840	.5540
135.000	1.3200	.4900	.4450	-.3840	-.1700	-.0340							.0480	.3080	.4370
180.000	1.3200	.6150	.5430	-.3360	-.0030	.0770	.1760	-.0180	-.1670	-.1070	-.0140	-.3510	.0480	.1810	-.0140
225.000	1.3200	.5720	.6300	-.2870	-.1610	.0970	.2100								

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + S3 + T9 SRM BOOSTER (RBMS30)

MACH (2) = 1.245 BETAT (2) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3200	.3380	.4730	-.2870	-.6030	-.3960	-.3340	-.1150			-.0340	-.2370	-.0780	-.1220	-.0140
315.000	1.1200	.1890	-.0340	-.6260	-.6950	-.5630	-.1810						.0380	.0720	.0410

X/LS	.9670
PHI	
.000	.1730
45.000	.0390
90.000	.0800
135.000	.2580
180.000	.3780
225.000	.2540
270.000	.0360
315.000	.1660

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2980	.1250	.1030	-.4980	-.4470	-.3480	-.0800	-.1070	-.1170	-.0820	-.0460	-.2940	.1200	.0650	.0690
45.000	1.2980	.0500	.1410	-.4840	-.4230	-.3010							.0090	.0400	.0880
90.000	1.2980	.1690	.1440	-.4720	-.3610	-.2720	-.3020	-.4380	-.3490	-.2020	-.2250	-.2630	-.0120	.0730	.3160
135.000	1.2980	.4220	.3740	-.4120	-.2020	-.1420							.0140	.1890	.4880
180.000	1.2980	.6120	.5350	-.3350	.0350	-.0090	.1070	-.1160	-.2460	-.1190	-.0900	-.3000	.0000	.4020	.3980
225.000	1.2980	.5990	.6470	-.2570	-.1050	.0300	.1810						.0950	.0640	-.0890
270.000	1.2980	.3250	.4390	-.2940	-.5750	-.4300	-.3540	-.1170			-.0330	-.2450	-.1380	-.1110	-.0980
315.000	1.2980	.1320	-.0690	-.6380	-.7200	-.5330	-.0880						.0400	.1380	-.0070

X/LS	.9670
PHI	
.000	.2040
45.000	.1070
90.000	.1080
135.000	.2400
180.000	.3230
225.000	.1840
270.000	.0200
315.000	.2440

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-737 IA9 OEA + S3 + T9 SRM BOOSTER (RBW930)

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0080	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2560	.0330	.0730	-.5160	-.4510	-.2750	-.0530	-.0850	-.0850	-.0620	-.0320	-.2830	.2740	.4780	.3970
45.000	1.2560	.0830	.0940	-.5020	-.4310	-.2710							.1920	.1670	.2010
90.000	1.2560	.1010	.0930	-.5140	-.4170	-.3280	-.3440	-.2710	-.2860	-.1220	-.1410	-.1920	.0530	.0880	.2310
135.000	1.2560	.2770	.2650	-.4650	-.2230	-.2750							.0530	.3120	.3810
180.000	1.2560	.5300	.4970	-.3310	.0850	-.0980	.0430	-.1970	-.3410	.0050	-.1730	-.2790	.0920	.5640	.3990
225.000	1.2560	.5430	.6100	-.2270	.2320	-.0380	.1390						.0920	.0070	-.0950
270.000	1.2560	.2030	.4130	-.3050	-.3330	-.4640	-.3720	-.1410			-.0610	-.2170	-.1410	-.1010	-.0950
315.000	1.2560	-.0190	-.0610	-.6350	-.6830	-.5200	-.0900						.0680	.1970	-.0260

X/LS	.9670
PHI	
.000	.2080
45.000	.3400
90.000	.1880
135.000	.2280
180.000	.2480
225.000	.1560
270.000	-.0300
315.000	.2090

MACH (2) = 1.247 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2170	-.0330	.0800	-.5140	-.4380	-.1480	-.1080	-.0300	-.0400	-.0260	-.0140	-.3080	.1930	.6270	.4930
45.000	1.2100	.0890	.0850	-.5030	-.4190	-.2250							.2080	.5170	.3120
90.000	1.2150	.0490	.0830	-.5400	-.4380	-.3910	-.1730	-.2840	-.3160	-.0880	-.1240	.2540	.1150	.1840	.2080
135.000	1.2100	.1440	.1960	-.4890	-.2330	-.3970							.0090	.1750	.2550
180.000	1.2100	.4170	.5350	-.2920	.0860	-.1570	-.0020	-.2540	-.4320	.0480	-.2210	-.2440	.2640	.2230	.1610
225.000	1.2100	.5030	.5710	-.1470	.2520	-.0670	.1410						.1040	-.1050	-.1390
270.000	1.2100	.1290	.3840	-.2990	-.2960	-.4800	-.3410	-.1760			-.0590	-.2660	-.1360	-.1070	-.1450
315.000	1.2100	-.1430	-.0160	-.5970	-.5630	-.5040	-.1150						.0060	.2400	-.0600

X/LS	.9670
PHI	
.000	.1990
45.000	.3940
90.000	.2510
135.000	.1710
180.000	.1720

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

ANES 11-70? IA9 OPA + 33 + T9 SRM BOOSTER (RBNS30)

MACH (2) = 1.247 BETAT (5) = 0.250

SECTION (11)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0880
270.000	-.0710
315.000	.1130

DAT: 24 SEP 75 TABULATED PRESSURE DATA - TAP11

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS31) (27 APR 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0500 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2800	.2960	.1230	-.6870	-.5730	-.3510	-.0700	-.1360	-.1490	-.0600	-.0600	-.2680	.0320	-.0030	-.0280
45.000	1.2800	.3270	.1760	-.6570	-.4860	-.2820							-.0100	.2470	.1440
90.000	1.2800	.4660	.2720	-.6070	-.3400	-.0790	-.1800	-.1620	-.2520	-.0370	-.1850	-.3240	.1150	.5600	.3990
135.000	1.2800	.5980	.4030	-.5650	-.2310	.1090							.2140	.7490	.3020
180.000	1.2800	.6330	.4190	-.5540	-.1480	.1980	.1120	-.0420	-.0300	.2190	.0200	-.3840	.1700	.6260	.3610
225.000	1.2800	.5820	.4750	-.5230	-.3900	.1930	.1050						.0100	.1480	-.0200
270.000	1.2800	.4380	.4280	-.4640	-.8400	-.4670	-.0850	-.1850			-.1150	-.2870	-.0920	-.0680	-.0070
315.000	1.2800	.3210	.0310	-.7590	-.8270	-.3450	-.1670						.0000	.0010	.0510

X/LS	.9670
PHI	
.000	.0850
45.000	-.0990
90.000	.0480
135.000	.2500
180.000	.3540
225.000	.1860
270.000	.0840
315.000	.0330

MACH (1) = 1.101 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2720	.2600	.1220	-.6670	-.5670	-.2620	-.0240	-.1070	-.1520	-.0730	-.0600	-.2140	.0570	.0290	.0860
45.000	1.2720	.2780	.1650	-.6540	-.5130	-.2940							.0230	.2200	.1970
90.000	1.2720	.3840	.1830	-.6280	-.3960	-.1800	-.2170	-.1850	-.2870	-.0650	-.2100	-.3280	.1060	.4830	.3770
135.000	1.2720	.5400	.3590	-.5790	-.2620	.0210							.1790	.6700	.4590
180.000	1.2720	.6290	.4330	-.5330	-.0850	.1380	.0590	-.0810	-.1180	.1600	-.0540	-.3420	.1950	.5600	.3930
225.000	1.2720	.5890	.5100	-.4820	-.3190	.1540	.0700						.0850	.1040	-.0360
270.000	1.2720	.4070	.4040	-.4660	-.8050	-.4690	-.1350	-.1780			-.0610	-.2270	-.1030	-.0700	-.0260
315.000	1.2720	.2750	.0140	-.7590	-.7920	-.3680	-.1480						.0700	.0710	.0870

X/LS	.9670

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-7FT IA9 CEA + S3 + T9 SRM BOOSTER (RBMS31)

MACH (1) = 1.101 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.0770
45.000	.0810
90.000	.1060
135.000	.2400
180.000	.3160
225.000	.1820
270.000	.1170
315.000	.0490

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9306
PHI															
.000	1.2550	.2160	.1270	-.6650	-.5610	-.1900	-.0360	-.0660	-.1130	-.0170	-.0480	-.2460	.1120	.1560	.1710
45.000	1.2550	.2270	.1590	-.6560	-.5240	-.2660							.0690	.1670	.2470
90.000	1.2550	.3020	.1590	-.6510	-.4360	-.2530	-.1800	-.2470	-.2830	-.0680	-.2010	-.2880	.1100	.3870	.3520
135.000	1.2550	.4740	.3010	-.6040	-.2470	-.1750							.1590	.5780	.4040
180.000	1.2550	.6200	.4330	-.5230	-.0690	-.0650	-.0020	-.1710	-.2380	.0990	-.1660	-.3630	.1840	.5000	.3110
225.000	1.2550	.5920	.5410	-.4330	-.2500	-.0380	.0460						.0830	.0340	-.0670
270.000	1.2550	.3640	.3710	-.4740	-.7680	-.5940	-.2340	-.1700			-.0840	-.2350	-.1330	-.0590	.0500
315.000	1.2550	.2160	.0040	-.7600	-.8140	-.3420	-.0790						.1280	.1020	.0540

X/LS .9670

PHI	
.000	.1090
45.000	.1180
90.000	.1580
135.000	.2280
180.000	.2720
225.000	.1620
270.000	.0670
315.000	.2050

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBWS31)

MACH (1) = 1.090 BETAT (4) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2190	.1070	.1370	-.6570	-.5390	-.1040	-.0510	-.0510	-.0920	.0120	-.0210	-.2360	.4150	.4620	.3980
45.000	1.2190	.1680	.1410	-.6550	-.5260	-.2270							.1850	.2530	.2480
90.000	1.2190	.2170	.1410	-.6660	-.4780	-.3090	-.1490	-.2590	-.2310	-.0230	-.0970	-.0480	.0910	.1800	.2950
135.000	1.2190	.3540	.2390	-.6260	-.2530	-.3200							.1310	.4500	.3260
180.000	1.2190	.5320	.4480	-.4900	-.0050	-.2100	-.0700	-.2690	-.3350	.0200	-.1870	-.3160	.2380	.4690	.2290
225.000	1.2190	.5030	.5450	-.3930	.0720	-.1730	.0240						.1390	.0200	-.0830
270.000	1.2190	.1910	.3880	-.4620	-.4760	-.6610	-.3250	-.187			-.0870	-.2560	-.0960	-.0930	-.0160
315.000	1.2190	.0500	.0630	-.7210	-.7380	-.2540	-.1715						.1360	.1970	.0400

X/LS	.9670
PHI	
.000	.2480
45.000	.3170
90.000	.1780
135.000	.2020
180.000	.2230
225.000	.1210
270.000	.0240
315.000	.3000

MACH (1) = 1.087 BETAT (5) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2380	.0490	.1290	-.6650	-.5460	-.0930	-.0720	-.0380	-.0930	.0180	-.0160	-.2930	.4510	.5490	.4360
45.000	1.2380	.1240	.1280	-.6620	-.5430	-.1610							.4750	.5080	.3510
90.000	1.2380	.1590	.1270	-.6920	-.5050	-.3600	-.1500	-.2520	-.2500	.0430	-.0880	-.2650	.1810	.2740	.2170
135.000	1.2380	.2830	.1660	-.6670	-.3160	-.4630							.1110	.2720	.2290
180.000	1.2380	.5050	.4560	-.4830	-.0730	-.3050	-.1480	-.3580	-.0580	.0300	-.1980	-.2690	.3290	.1700	.1090
225.000	1.2380	.4830	.6390	-.2930	.0750	-.2100	.0190						.0960	-.1700	-.1580
270.000	1.2380	.1420	.3370	-.4710	-.5070	-.6390	-.5630	-.2020			-.0870	-.2810	-.1120	-.1130	-.1070
315.000	1.2380	.0040	.0740	-.7200	-.6050	-.2510	-.1350						.1040	.1640	-.0420

X/LS	.9670
PHI	
.000	.2040
45.000	.3300
90.000	.2550
135.000	.1540
180.000	.1910

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 02A + S3 + T9 SRM BOOSTER (RBHS31)

MACH (1) = 1.097 BETAT (5) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0760
270.000	-.0790
315.000	.2560

MACH (2) = 1.247 BETAT (1) = -8.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3650	.2820	.1970	-.4740	-.4150	-.2040	-.1850	-.1320	-.1550	-.1320	-.0290	-.2020	.0360	.0690	.0120
45.000	1.3650	.2780	.2590	-.4470	-.3460	-.2610							.0140	.2000	.1820
90.000	1.3650	.4040	.2940	-.4010	-.2320	-.1040	-.0840	-.1910	-.3200	-.1520	-.1490	-.2330	.0790	.4170	.4310
135.000	1.3650	.5470	.4870	-.3660	-.1610	.0290							.1000	.5850	.5810
180.000	1.3650	.5840	.4900	-.3610	-.1380	.1010	.2030	.0910	-.0750	-.0250	.1010	-.3110	.0180	.3580	.5800
225.000	1.3650	.5560	.5570	-.3400	-.2960	.2020	.1980						.0070	.1150	.1320
270.000	1.3650	.4450	.5570	-.2550	-.6430	-.3480	-.3460	-.0390			-.1520	-.2560	-.0580	-.0840	.1200
315.000	1.3650	.3290	.1180	-.5560	-.6470	-.4770	-.1870						.0240	.0070	.0480

X/LS .9670

PHI	
.000	.0700
45.000	.0040
90.000	.1070
135.000	.3090
180.000	.4380
225.000	.2800
270.000	.0840
315.000	.0860

MACH (2) = 1.248 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3430	.1870	.1750	-.4530	-.4060	-.4020	-.0790	-.0880	-.1470	-.1490	-.0220	-.2040	.0380	.0570	.0490
45.000	1.3430	.1300	.2260	-.4510	-.3710	-.2570							.0290	.1510	.1780
90.000	1.3430	.2730	.2300	-.4230	-.2880	-.1500	-.1610	-.2620	-.2460	-.1850	-.1370	-.2240	.0580	.2770	.3970
135.000	1.3430	.4430	.4360	-.3820	-.1930	-.0320							.0860	.3610	.5380
180.000	1.3430	.5380	.5030	-.3510	-.0890	.0360	.1770	.0010	-.1590	-.0800	.0270	-.3080	.0760	.3210	.4730
225.000	1.3430	.5310	.5840	-.3140	-.2380	.0770	.2090						.0960	.1700	.0170

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A (RBMS31)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (2) = 1.248 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
279.000	1.3430	.3860	.5460	-.2620	-.6260	-.3970	-.1760	-.1120			-.0180	-.2200	-.0590	-.1000	.0130
315.000	1.3430	.2490	.0810	-.5660	-.6580	-.4870	-.1650						.0940	.0720	.0390

X/LS	.9670
PHI	
.000	.1270
45.000	.0610
90.000	.1200
135.000	.2780
180.000	.3870
225.000	.2420
270.000	.0920
315.000	.1440

MACH (2) = 1.251 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3180	.1300	.1590	-.4680	-.4120	-.3690	-.0270	-.0510	-.1140	-.0700	.0030	-.2630	.1490	.1270	.1540
45.000	1.3180	.0700	.1940	-.4530	-.3800	-.2480							.0270	.1150	.1930
90.000	1.3180	.1740	.1950	-.4440	-.3320	-.2040	-.2120	-.1600	-.2610	-.1340	-.1320	-.2180	.0660	.2070	.3500
135.000	1.3180	.3810	.3730	-.4040	-.2300	-.1150							.0700	.2650	.4860
180.000	1.3180	.5140	.5020	-.3470	-.0570	-.0180	.1300	-.0990	-.2320	-.0880	-.0620	-.2520	.0550	.2670	.4860
225.000	1.3180	.5250	.6050	-.2920	-.1770	.0190	.1950						.0490	.0940	-.0330
270.000	1.3180	.3280	.5230	-.2660	-.3990	-.4290	-.2580	-.1430			-.0430	-.2230	-.1080	-.0810	-.0540
315.000	1.3180	.1630	.0800	-.5680	-.6570	-.3620	-.1580						.0800	.1300	.0390

X/LS	.9670
PHI	
.000	.2090
45.000	.1540
90.000	.1870
135.000	.2650
180.000	.3340
225.000	.1960
270.000	.0780
315.000	.2450

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMS31)

AMES 11-70T IA9 OEA + S3 + T9 SRM BOOSTER

MACH (2) = 1.251 BETAT (4) = 4.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2860	.0870	.1380	-.4710	-.4100	-.3280	-.0400	-.0540	-.0560	-.0530	-.0070	-.1890	.2130	.4250	.3930
45.000	1.2860	.0950	.1610	-.4590	-.3790	-.2250							.2040	.2020	.2300
90.000	1.2860	.1040	.1650	-.4650	-.3790	-.2330	-.1840	-.1740	-.2200	-.0700	-.0670	-.1610	.0820	.1640	.2690
135.000	1.2860	.2800	.2820	-.4380	-.2590	-.2150							.1090	.2820	.4100
180.000	1.2860	.4850	.4650	-.3590	-.0440	-.0860	.0560	-.1610	-.2930	.0280	-.1250	-.2590	.0850	.4450	.4130
225.000	1.2860	.5260	.5890	-.2660	-.1010	-.0310	.1410						.0940	.0490	-.0800
270.000	1.2860	.2760	.5100	-.2600	-.5720	-.4520	-.2750	-.1860			-.0500	-.2230	-.1170	-.0670	-.0740
315.000	1.2860	.0920	.0670	-.5610	-.6410	-.3080	-.1430						.0750	.2030	.0050

X/LS	.9670
PHI	
.000	.2280
45.000	.3500
90.000	.2160
135.000	.2440
180.000	.2810
225.000	.1650
270.000	-.0060
315.000	.2520

MACH (2) = 1.250 BETAT (5) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2440	.0070	.1120	-.4890	-.4180	-.1470	-.0840	-.0400	-.0170	-.0430	-.0020	-.2940	.2090	.5780	.5180
45.000	1.2440	.0740	.1130	-.4720	-.3880	-.1780							.2320	.5430	.3830
90.000	1.2440	.0920	.1150	-.4980	-.4020	-.2740	-.0930	-.1800	-.2150	-.0430	-.0610	-.1900	.1310	.1940	.2800
135.000	1.2440	.1660	.2070	-.4730	-.2680	-.3420							.0180	.1200	.3040
180.000	1.2440	.3800	.4760	-.3260	.0830	-.1530	.0090	-.2290	-.3650	.0530	-.1780	-.2420	.1460	.3220	.1620
225.000	1.2440	.4620	.5230	-.2800	.2230	-.0890	.0950						.1190	-.0640	-.1460
270.000	1.2440	.1880	.4880	-.2680	-.2620	-.4770	-.1920	-.2300			-.0690	-.2590	-.1190	-.0780	-.1390
315.000	1.2440	-.0250	.0990	-.5320	-.5870	-.2420	-.1300						.0230	.2260	-.0430

X/LS	.9670
PHI	
.000	.2090
45.000	.4100
90.000	.3240
135.000	.2300
180.000	.2160

DATE 26 SEP 73 TABULATED PRESSURE DATA - IA9A (RBM331)

AMES 11-707 IA9 C2A + S3 + T9 SRM BOOSTER

MACH (2) = 1.250 BETAT (5) = 0.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0550
270.000	-.0440
315.000	.2460

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM932) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.9300 INCHES
LREF = 99.8490 INCHES YMRP = .0000 INCHES
BREF = 99.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .000
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.100 BETAT (1) = -8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3060	.3360	.1740	-.6680	-.5350	-.3650	.0100	-.0860	-.1230	-.0120	-.0270	-.2670	-.0010	.0810	.0360
45.000	1.3060	.3770	.2330	-.6310	-.4500	-.2650							.0620	.3130	.2190
90.000	1.3060	.4920	.3900	-.5900	-.3300	-.0780	-.1000	-.0720	-.1800	.0300	-.0710	-.2670	.1850	.3690	.4210
135.000	1.3060	.5670	.3890	-.5720	-.2740	.1090							.2220	.7250	.4920
180.000	1.3060	.5710	.3770	-.5740	-.2450	.2010	.1180	-.0250	-.0700	.2380	.0820	-.4270	.1340	.6130	.3680
225.000	1.3060	.5500	.4310	-.5580	-.4770	.2010	.1040						.0100	.1780	.0490
270.000	1.3060	.4730	.5010	-.4320	-.8590	-.4240	-.2400	-.2460			-.0610	-.2670	-.0450	-.0020	.1160
315.000	1.3060	.3740	.1240	-.7180	-.7750	-.3030	.0350						.0490	.0510	.1280

X/LS	.9670
PHI	
.000	.0880
45.000	.0970
90.000	.1220
135.000	.2620
180.000	.3520
225.000	.1880
270.000	.1450
315.000	.0660

MACH (1) = 1.098 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2950	.3090	.1790	-.6520	-.5330	-.2740	.0280	-.0430	-.1000	-.0430	-.0480	-.2050	.0240	.1290	.1740
45.000	1.2950	.3320	.2170	-.6390	-.4780	-.2500							.0990	.3120	.2780
90.000	1.2950	.4180	.2630	-.6180	-.3910	-.1610	-.0610	-.0980	-.2040	.0020	-.1220	-.2600	.1680	.4830	.4120
135.000	1.2950	.5170	.3490	-.5910	-.3000	-.0690							.2060	.6270	.4350
180.000	1.2950	.5710	.3900	-.5640	-.1940	.0240	.0750	-.0550	-.1520	.1760	-.0270	-.3210	.2190	.5450	.3330
225.000	1.2950	.5600	.4590	-.5340	-.4170	.0970	.0720						.1180	.1300	-.0080
270.000	1.2950	.4650	.4840	-.4360	-.8480	-.4780	-.2830	-.2290			-.0720	-.2140	-.0410	.0000	.0650
315.000	1.2950	.3530	.1150	-.7150	-.7810	-.2990	.0320						.0380	.0540	.1490

X/LS	.9670

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + S3 + T9 SRM BOOSTER (RBM332)

MACH (1) = 1.090 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
.000	.1220
45.000	.1410
90.000	.1860
135.000	.2740
180.000	.3150
225.000	.1850
270.000	.1740
315.000	.1240

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2740	.2580	.1820	-.6570	-.5280	-.2050	.0170	-.0220	-.0640	-.0250	-.0420	-.1620	.1410	.1880	.2170
45.000	1.2740	.2820	.1820	-.6430	-.4940	-.2180							.1580	.2910	.3120
90.000	1.2740	.3540	.2070	-.6370	-.4340	-.1860	-.0500	-.1580	-.2030	-.0110	-.1200	-.2410	.1960	.4240	.3830
135.000	1.2740	.4510	.3050	-.6070	-.3160	-.1520							.2020	.5260	.4080
180.000	1.2740	.5440	.3950	-.5520	-.1430	-.1050	.0230	-.1370	-.2480	.1070	-.1360	-.3400	.1980	.4650	.3040
225.000	1.2740	.5320	.4880	-.4900	-.3390	-.1110	.0480						.1000	.0920	-.0250
270.000	1.2740	.3930	.4710	-.4370	.8070	-.5670	-.2670	-.1920			-.0890	-.2240	-.0430	.0050	-.0210
315.000	1.2740	.2870	.1170	-.7150	-.7580	-.2470	-.0510						.1370	.1340	.0890

X/LS .9870

PHI	
.000	.1620
45.000	.1740
90.000	.2120
135.000	.2520
180.000	.2780
225.000	.1630
270.000	.0920
315.000	.1690

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RUN 32)

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2450	.2040	.1690	-.6350	-.5050	-.1340	-.0300	-.0170	-.0720	.0070	-.0210	-.2090	.3640	.4420	.3890
45.000	1.2450	.2370	.1850	-.6500	-.5090	-.1930							.2640	.3300	.2870
90.000	1.2450	.2740	.1850	-.6570	-.4760	-.2220	-.0690	-.1800	-.2090	.0180	-.0670	-.1040	.1600	.2380	.3050
135.000	1.2450	.3390	.2490	-.6330	-.3490	-.2740							.1860	.3980	.3510
180.000	1.2450	.4910	.4010	-.5400	-.0910	-.2140	-.0350	-.2260	-.3020	.0590	-.1410	-.2890	.2460	.4480	.2477
225.000	1.2450	.4950	.4940	-.4820	-.0080	-.2070	.0030						.1600	.0820	-.0340
270.000	1.2450	.2940	.4990	-.4290	-.7460	-.6740	-.5080	-.2090			-.0860	-.2230	-.0390	.0120	-.0370
315.000	1.2450	.1690	.1670	-.6870	-.7210	-.1690	-.0940						.1450	.1820	.0890

X/LS	.9670
PHI	
.000	.2360
45.000	.3110
90.000	.2080
135.000	.2070
180.000	.2330
225.000	.1300
270.000	.0360
315.000	.2790

MACH (1) = 1.101 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2550	.0840	.1780	-.6550	-.5200	-.1110	-.0680	-.0100	-.0770	.0130	-.0020	-.1700	.3950	.5170	.4530
45.000	1.2550	.1450	.1570	-.6420	-.5270	-.1000							.5220	.5300	.3950
90.000	1.2550	.1800	.1580	-.6730	-.5140	-.2600	-.0800	-.1710	-.2440	.0550	-.0320	-.2270	.2750	.3450	.2680
135.000	1.2550	.2410	.1960	-.6580	-.3050	-.4030							.1220	.2810	.2500
180.000	1.2550	.3910	.4160	-.5200	-.0650	-.3030	-.1020	-.3190	.0200	.0490	-.1310	-.2560	.3080	.2250	.1020
225.000	1.2550	.4100	.4780	-.4020	.0590	-.2460	.0010						.1540	-.1170	-.1230
270.000	1.2550	.1850	.4380	-.4360	-.4260	-.6830	-.4810	-.2360			-.0740	-.2590	-.0400	-.0300	-.0640
315.000	1.2550	.0750	.1760	-.6600	-.5650	-.1810	-.1460						.0870	.1950	-.0010

X/LS	.9670
PHI	
.000	.2250
45.000	.3340
90.000	.2830
135.000	.1980
180.000	.1600

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBM332)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (1) = 1.101 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0730
270.000	-.0630
315.000	.2030

MACH (2) = 1.249 BETAT (1) = -8.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3810	.3150	.2470	-.4560	-.3750	-.3720	-.0850	-.0250	-.0950	-.0860	.0070	-.2020	.0140	.0820	.0290
45.000	1.3810	.3120	.3130	-.4250	-.3170	-.2200							.0460	.2810	.2280
90.000	1.3810	.4170	.3520	-.3900	-.2250	-.0990	-.0510	-.1170	-.1250	-.0850	-.0450	-.1740	.1390	.4810	.4380
135.000	1.3810	.4970	.4670	-.3750	-.1960	-.0050							.1380	.5670	.5510
180.000	1.3810	.5130	.4470	-.3820	-.2040	.0300	.2180	.0550	-.0650	.0040	.1400	-.2820	.0150	.3940	.5500
225.000	1.3810	.3210	.5010	-.3740	-.3620	.0810	.1990						.0160	.1490	.1270
270.000	1.3810	.4770	.0120	-.2350	-.6520	-.2790	-.3410	-.1030			-.1580	-.2330	-.0430	-.0850	.1020
315.000	1.3810	.3770	.2090	-.5120	-.5940	-.3480	-.0120						.0180	.0280	.0790

X/LS .9670

PHI	
.000	.0980
45.000	.0320
90.000	.1360
135.000	.3320
180.000	.4220
225.000	.2880
270.000	.0770
315.000	.1200

MACH (2) = 1.290 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3580	.1940	.2280	-.4490	-.3770	-.3760	-.0210	-.0230	-.0960	-.0910	.0020	-.1830	.0280	.0980	.0990
45.000	1.3580	.1460	.2810	-.4250	-.3340	-.2250							.1080	.2840	.2450
90.000	1.3580	.2700	.2840	-.4080	-.2710	-.1240	-.1230	-.1000	-.1570	-.1300	-.0460	-.1650	.1320	.3870	.4040
135.000	1.3580	.3820	.4240	-.3830	-.2180	-.0350							.1120	.4080	.5220
180.000	1.3580	.4670	.4800	-.3680	-.1690	.0050	.1480	.0220	-.1290	-.0730	.0600	-.3030	.0940	.3270	.5200
225.000	1.3580	.3030	.5350	-.3440	-.3150	.0170	.1450						.0870	.1920	.0870

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS32)

MACH (2) = 1.250 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3360	.4470	.6100	-.2340	-.6400	-.4090	-.1170	-.1320			-.0490	-.2120	-.0190	-.0740	.0360
315.000	1.3360	.3180	.1820	-.5150	-.6050	-.3730	-.0230						.1100	.0840	.0820

X/LS	.9670
PHI	
.000	.0920
45.000	.1100
90.000	.1050
135.000	.3040
180.000	.3840
225.000	.2900
270.000	.1630
315.000	.1210

MACH (2) = 1.250 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3350	.1520	.2130	-.4560	-.3790	-.3640	-.0020	-.0260	-.0710	-.0670	.0080	-.2120	.0760	.1900	.1990
45.000	1.3350	.0710	.2480	-.4390	-.3530	-.2230							.1100	.2330	.2780
90.000	1.3350	.1620	.2500	-.4300	-.3170	-.1610	-.1580	-.0720	-.1930	-.0960	-.0580	-.1680	.1360	.3170	.3800
135.000	1.3350	.3350	.3720	-.4080	-.2530	-.0990							.1130	.3340	.4760
180.000	1.3350	.4680	.4610	-.3690	-.1400	-.0420	.1390	-.0660	-.1940	.0110	-.0320	-.2160	.0890	.3010	.4770
225.000	1.3350	.5090	.5580	-.3280	-.2620	-.0040	.2110						.0670	.1160	-.0300
270.000	1.3350	.3940	.5900	-.2420	-.6230	-.4330	-.1670	-.1910			-.0320	-.1990	-.0810	-.0700	-.0400
315.000	1.3350	.2630	.1770	-.5220	-.6030	-.3190	-.0530						.1020	.0820	.0850

X/LS	.9670
PHI	
.000	.1800
45.000	.1910
90.000	.2640
135.000	.3030
180.000	.3430
225.000	.2020
270.000	.1020
315.000	.1820

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS32)

MACH (2) = 1.246 BETAT (4) = 4.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3010	.1490	.1910	-.4680	-.3900	-.3200	-.0210	-.0440	-.0400	-.0500	.0110	-.1720	.2460	.4780	.4140
45.000	1.3010	.1020	.2040	-.4520	-.3650	-.1990							.3060	.3050	.3040
90.000	1.3010	.1220	.2080	-.4360	-.3570	-.1780	-.0950	-.0920	-.1730	-.0500	-.0080	-.1380	.1400	.2270	.3040
135.000	1.3010	.2670	.2920	-.4400	-.2890	-.1740							.1550	.2830	.4000
180.000	1.3010	.4340	.4300	-.3840	-.1130	-.0940	.0870	-.1370	-.2530	.0740	-.0820	-.2110	.1280	.4090	.4060
225.000	1.3010	.4950	.5490	-.3240	-.2210	-.0240	.1620						.1140	.1300	-.0290
270.000	1.3010	.3410	.5740	-.2460	-.6220	-.4480	-.1500	-.3050			-.0520	-.2090	-.0470	.0180	-.0290
315.000	1.3010	.1930	.1660	-.5240	-.5980	-.2300	-.0670						.1020	.2110	.0870

X/LS	.9670
PHI	
.000	.2590
45.000	.3690
90.000	.2630
135.000	.2520
180.000	.2890
225.000	.1750
270.000	.0440
315.000	.1610

MACH (2) = 1.246 BETAT (5) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2720	.0690	.1660	-.4770	-.3880	-.1520	-.0680	-.0280	-.0150	-.0440	.0020	-.2470	.2470	.5240	.5180
45.000	1.2720	.0960	.1810	-.4590	-.3720	-.1520							.3230	.5440	.4180
90.000	1.2720	.1160	.2550	-.4770	-.3860	-.1930	-.0460	-.1020	-.1660	-.0030	-.0230	-.1580	.1880	.2310	.2870
135.000	1.2720	.1750	.2250	-.4770	-.3050	-.2890							.0630	.1600	.3010
180.000	1.2720	.3420	.4240	-.3570	-.0170	-.1600	.0070	-.1680	-.2650	.0220	-.0900	-.2150	.1340	.3470	.2810
225.000	1.2720	.4180	.5150	-.3200	.1360	-.1060	.0800						.1330	-.0370	-.0380
270.000	1.2720	.2320	.5730	-.2430	-.5550	-.4910	-.1300	-.3050			-.0560	-.2460	-.0770	-.0810	-.0920
315.000	1.2720	.0740	.1960	-.4990	-.5550	-.1680	-.0830						.0120	.2100	-.0380

X/LS	.9670
PHI	
.000	.2360
45.000	.4180
90.000	.3400
135.000	.2450
180.000	.2220

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBM332)

AMES 11-707 IA9 OEA + 33 + 79 SRM BOOSTER

MACH (2) = 1.248 BETAT (5) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0680
270.000	-.0220
315.000	.2720

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNS33) (27 APR 73)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.102 BETAT (1) = -8.200

DEPENDENT VARIABLE CP

SECTION (1)SRM BOOSTER

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3150	.3820	.2200	-.6500	-.4970	-.3630	.0430	-.0190	-.0760	.0040	.0060	-.3430	.0290	.1860	.1300
45.000	1.3150	.4230	.2800	-.6090	-.4150	-.2320							.1340	.3600	.2890
90.000	1.3150	.5030	.3200	-.5800	-.3230	-.1060	.0200	-.0050	-.1190	.0890	.0260	-.2100	.2520	.5700	.4420
135.000	1.3150	.5250	.3670	-.5820	-.3130	.0080							.2600	.6820	.4700
180.000	1.3150	.5100	.3350	-.5930	-.3310	.1580	.1210	-.0040	-.0900	.2520	.1590	-.4290	.1610	.5780	.3460
225.000	1.3150	.5110	.3770	-.5920	-.5500	.1750	.1030						.0270	.1590	.0310
270.000	1.3150	.4910	.5470	-.4090	-.8660	-.2720	-.4690	-.2760			-.0310	-.2490	.0150	.0670	.0400
315.000	1.3150	.4160	.2020	-.6770	-.7260	- 2290	.0440						.0380	.0590	.1560

X/LS	.9870
PHI	
.000	.1380
45.000	.1030
90.000	.1950
135.000	.3080
180.000	.3350
225.000	.1770
270.000	.1550
315.000	.1240

MACH (1) = 1.101 BETAT (2) = -4.090

DEPENDENT VARIABLE CP

SECTION (1)SRM BOOSTER

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3060	.3580	.2260	-.6330	-.4900	-.2890	.0560	-.0110	-.0660	-.0230	-.0180	-.2180	.1370	.2630	.2480
45.000	1.3060	.3780	.2610	-.6170	-.4470	-.2130							.2330	.4080	.3420
90.000	1.3060	.4380	.2620	-.6030	-.3840	-.1250	.0730	-.0310	-.1420	.0540	-.0260	-.2200	.2690	.5080	.4290
135.000	1.3060	.4870	.3360	-.5930	-.3430	-.0620							.2610	.5720	.4480
180.000	1.3060	.5130	.3530	-.5810	-.2870	-.0340	.1030	-.0390	-.1470	.1940	.0220	-.3010	.2500	.5190	.3190
225.000	1.3060	.5260	.4090	-.5680	-.4940	-.0150	.0890						.1400	.1360	.0190
270.000	1.3060	.4910	.5410	-.4080	-.8460	-.3630	-.2920	-.2380			-.0610	-.1880	.0050	.0330	.0950
315.000	1.3060	.4000	.2100	-.6750	-.7140	-.2140	.0350						.0190	.0350	.1900

X/LS	.9870

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A (RBMS33)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (1) = 1.101 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.1810
45.000	.1950
90.000	.2420
135.000	.2960
180.000	.3090
225.000	.1850
270.000	.1800
315.000	.1890

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0541	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2890	.3230	.2300	-.6390	-.4790	-.2090	.0260	.0040	-.0640	-.0250	-.0210	-.1340	.1830	.3050	.3290
45.000	1.2890	.3300	.2370	-.6260	-.4610	-.1880							.2560	.3980	.3680
90.000	1.2890	.3730	.2400	-.6230	-.4270	-.1410	.0320	-.0860	-.1560	.0330	-.0500	-.2180	.2710	.4310	.3970
135.000	1.2890	.4270	.3030	-.6100	-.3690	-.1340							.2540	.4920	.4030
180.000	1.2890	.4950	.3550	-.5810	-.2380	-.1150	.0580	-.1120	-.2210	.1260	-.0670	-.3130	.2480	.4840	.2850
225.000	1.2890	.5150	.4300	-.5460	-.4440	-.0900	.0640						.1730	.1320	.0050
270.000	1.2890	.4570	.5340	-.4060	-.8260	-.4420	-.2930	-.2070			-.0830	-.1980	.0060	.0600	.0670
315.000	1.2890	.3870	.2150	-.6750	-.6990	-.1760	-.0080						.0550	.1210	.1380

X/LS .9670

PHI	
.000	.1930
45.000	.2480
90.000	.2620
135.000	.2700
180.000	.2710
225.000	.1690
270.000	.1150
315.000	.2050

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBM333)

AMES 11-707 IA9 OEA + 33 + 79 SRM BOOSTER

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9366
PHI															
.000	1.2620	.2600	.2290	-.6400	-.4590	-.1520	-.0300	.0050	-.0780	.0150	-.0090	-.1350	.3460	.4430	.4170
45.000	1.2620	.2750	.2150	-.6220	-.4840	-.1700							.4300	.4670	.3790
90.000	1.2620	.2990	.2170	-.6390	-.4680	-.1460	.0120	-.1060	-.1860	.0590	-.0260	-.1580	.2260	.3220	.3160
135.000	1.2620	.3530	.2520	-.6290	-.3850	-.2070							.2300	.3610	.3270
180.000	1.2620	.4380	.3510	-.5650	-.2200	-.1850	.0110	-.1880	-.2740	.0840	-.0930	-.2660	.2440	.4060	.2470
225.000	1.2620	.4540	.4530	-.5180	-.3470	-.1680	.0270						.1510	.1080	.0000
270.000	1.2620	.3480	.5590	-.3950	-.8050	-.5080	-.3170	-.2110			-.0650	-.1920	.0150	.0620	-.0010
315.000	1.2620	.2870	.2510	-.6410	-.6550	-.1470	-.0770						.1200	.2160	.1080

X/LS	.9670
PHI	
.000	.2600
45.000	.3200
90.000	.2750
135.000	.2050
180.000	.2110
225.000	.1300
270.000	.0880
315.000	.2840

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9366
PHI															
.000	1.2480	.1530	.2250	-.6390	-.4660	-.1430	-.0890	-.0180	-.0750	-.0080	.0290	-.1040	.3350	.5940	.4810
45.000	1.2480	.1780	.1820	-.6490	-.5010	-.0840							.3610	.4930	.3830
90.000	1.2480	.2000	.1830	-.6600	-.4960	-.1600	-.0170	-.1310	-.2170	.0450	.0010	-.2060	.3790	.3620	.2720
135.000	1.2480	.2330	.2030	-.6530	-.4040	-.3250							.1560	.2750	.2300
180.000	1.2480	.3430	.3540	-.5600	-.0580	-.2920	-.0270	-.2580	-.0380	.0760	-.1000	-.2240	.2680	.2430	.0890
225.000	1.2480	.3900	.4180	-.5370	.0550	-.2720	-.0290						.1630	-.1150	-.1250
270.000	1.2480	.2480	.5430	-.3980	-.4860	-.3450	-.2970	-.2290			-.0680	-.2430	-.0090	.0080	-.1290
315.000	1.2480	.1750	.2850	-.6200	-.5790	-.1340	-.1220						.1390	.2620	.0080

X/LS	.9670
PHI	
.000	.2650
45.000	.3570
90.000	.2930
135.000	.1720
180.000	.1400

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMS33)

AMES 11-7D7 IA9 CEA + S3 + T9 SRM BOOSTER

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0480
270.000	-.0060
315.000	.2610

MACH (2) = 1.247 BETAT (1) = -8.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3880	.3580	.2990	-.4400	-.3430	-.3400	-.0300	.0350	-.0310	-.0500	.0270	-.2210	.0420	.1540	.0900
45.000	1.3880	.3600	.3590	-.4060	-.2850	-.1850							.0990	.3240	.2870
90.000	1.3880	.4250	.3590	-.3820	-.2190	-.1020	-.0320	.0180	-.0420	-.0440	.0270	-.1150	.2040	.4840	.4470
135.000	1.3880	.4510	.4380	-.3870	-.2290	-.0480							.1740	.5790	.5170
180.000	1.3880	.4540	.3980	-.4020	-.2610	-.0520	.2090	.0630	-.0430	.1540	.1710	-.2680	.0300	.4470	.5170
225.000	1.3880	.4870	.4400	-.4060	-.4270	.0700	.2130						.0440	.1790	.0960
270.000	1.3880	.4920	.6510	-.2170	-.6610	-.2570	-.3230	-.1470			-.1610	-.2080	.0080	-.0160	.0920
315.000	1.3880	.4190	.2980	-.4690	-.5440	-.2780	.0150						.0360	.0590	.1290

X/LS .9670

PHI	
.000	.1370
45.000	.1040
90.000	.2190
135.000	.3530
180.000	.4020
225.000	.2820
270.000	.0840
315.000	.1650

MACH (2) = 1.246 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3660	.2540	.2850	-.4350	-.3480	-.3490	.0110	.0100	-.0450	-.0560	.0120	-.1880	.0990	.2130	.1620
45.000	1.3660	.1830	.3260	-.4160	-.3110	-.1970							.1570	.3500	.2990
90.000	1.3660	.2650	.3250	-.4020	-.2660	-.1210	-.1030	.0150	-.0870	-.0770	.0130	-.1080	.1990	.4330	.4110
135.000	1.3660	.3210	.4060	-.3960	-.2450	-.0540							.1490	.4480	.4910
180.000	1.3660	.3980	.4120	-.3900	-.2260	-.0290	.0500	.0150	-.1140	-.0160	.1040	-.2840	.1210	.3730	.4930
225.000	1.3660	.4620	.4700	-.3830	-.3830	-.0570	.0530						.0980	.2220	.0580

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM533)

MACH (2) = 1.246 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3680	.4700	.6440	-.2170	-.6480	-.2920	-.1750	-.2680			-.1080	-.1620	.0270	-.0790	.0320
315.000	1.3680	.3790	.2810	-.4740	-.5500	-.2620	.0460						.0220	.0210	.1190

X/LS	.9670
PHI	
.000	.1420
45.000	.2700
90.000	.2760
135.000	.3280
180.000	.3690
225.000	.2430
270.000	.1810
315.000	.2010

MACH (2) = 1.250 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3470	.1090	.2710	-.4370	-.3580	-.3310	.0170	-.0060	-.0290	-.0480	.0340	-.1350	.1090	.2160	.2800
45.000	1.3470	.1090	.2280	-.4220	-.3230	-.1990							.1870	.3160	.3240
90.000	1.3470	.1630	.2930	-.4210	-.2990	-.1270	-.1500	-.0060	-.1280	-.0680	.0120	-.1110	.1980	.3920	.3850
135.000	1.3470	.2080	.3710	-.4060	-.2660	-.0900							.1360	.3910	.4520
180.000	1.3470	.2770	.4220	-.3840	-.2060	-.0630	.1130	-.0300	-.1690	.0830	.0120	-.2510	.1010	.3010	.4510
225.000	1.3470	.4990	.3050	-.3600	-.3380	-.0810	.1810						.0810	.1520	-.0140
270.000	1.3470	.4830	.6370	-.2170	-.6280	-.3080	-.0690	-.2790			-.0690	-.1910	-.0290	-.0070	-.0120
315.000	1.3470	.3910	.2700	-.4770	-.5460	-.2430	.0190						.0310	.0970	.1020

X/LS	.9670
PHI	
.000	.1800
45.000	.2780
90.000	.3160
135.000	.3250
180.000	.3420
225.000	.2070
270.000	.0910
315.000	.1890

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM333)

MACH (2) = 1.250 BETAT (4) = 4.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3200	.1970	.2440	-.4480	-.3600	-.3010	-.0140	-.0360	-.0220	-.0600	.0040	-.1270	.2390	.3900	.4280
													.3640	.4300	.3970
45.000	1.3200	.1340	.2380	-.4380	-.3460	-.1960							.1920	.3220	.3410
90.000	1.3200	.1370	.2400	-.4370	-.3370	-.1420	-.0790	-.0210	-.1290	-.0200	.0040	-.0960	.1660	.3270	.3630
135.000	1.3200	.2450	.2940	-.4350	-.3050	-.1400							.1350	.3420	.3780
180.000	1.3200	.3720	.3920	-.3980	-.1910	-.0920	.0220	-.0800	-.2160	.0620	-.0520	-.1940	.0910	.1170	-.0390
225.000	1.3200	.4420	.5020	-.3570	-.3010	-.0360	.0580						-.0310	.0270	-.0310
270.000	1.3200	.3640	.6320	-.2200	-.6210	-.3440	-.0540	-.3280			-.0520	-.1910	.0870	.2020	.0770
315.000	1.3200	.2610	.2740	-.4740	-.5300	-.1590	-.0100								

X/LS	.9670
PHI	
.000	.2580
45.000	.3770
90.000	.3510
135.000	.2800
180.000	.2790
225.000	.1670
270.000	.0970
315.000	.2800

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2770	.1290	.2210	-.4560	-.3530	-.1530	-.0800	-.0320	.0060	-.0600	.0150	-.1910	.2040	.4610	.5510
													.2430	.3980	.3820
45.000	1.2770	.1170	.1900	-.4560	-.3640	-.1510							.2850	.3360	.2940
90.000	1.2770	.1210	.1860	-.4550	-.3590	-.1290	-.0760	-.0560	-.1410	-.0120	.0150	-.1270	.0970	.2250	.2770
135.000	1.2770	.1630	.2340	-.4590	-.3150	-.2170							.1200	.3070	.2310
180.000	1.2770	.2990	.3760	-.3990	-.1560	-.1380	-.0260	-.1050	-.2200	.0430	-.0470	-.1950	.1030	-.0250	-.1250
225.000	1.2770	.3860	.4950	-.3440	-.1910	-.0760	.1740						-.0570	-.0310	-.1240
270.000	1.2770	.2880	.6290	-.2140	-.6030	-.3520	-.0270	-.2800			-.0550	-.2410	.0720	.2530	-.0030
315.000	1.2770	.1910	.2960	-.4550	-.4910	-.0860	-.0620								

X/LS	.9670
PHI	
.000	.2460
45.000	.4390
90.000	.3090
135.000	.2340
180.000	.1950

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMS33)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0590
270.000	.0270
315.000	.2690

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM334) (27 APR 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .900
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.097 BETAT (1) = -8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3190	.4020	.2560	-.6370	-.4630	-.3030	.0570	-.0060	-.0580	.0220	.0270	-.3300	.0830	.2350	.1750
45.000	1.3190	.4630	.3130	-.5970	-.3670	-.2050							.2090	.4300	.3340
90.000	1.3190	.5100	.3100	-.5780	-.3220	-.1200	.1090	.0330	-.0840	.1230	.0860	-.1650	.3150	.5720	.4500
135.000	1.3190	.4910	.3380	-.5950	-.3480	-.0640							.2920	.6330	.4520
180.000	1.3190	.4550	.2980	-.6100	-.3900	.1000	.1370	.0030	-.0970	.2640	.1910	-.3970	.1850	.5390	.3080
225.000	1.3190	.4700	.3250	-.6190	-.6050	.1260	.1260						.0520	.1480	.0270
270.000	1.3190	.4910	.3560	-.4030	-.8550	-.1340	-.1230	-.2470			-.0420	-.2270	.0180	.0680	.1020
315.000	1.3190	.4470	.2700	-.6480	-.6770	-.1910	.0390						.0150	.0360	.1770

X/LS	.9670
PHI	
.000	.1480
45.000	.1410
90.000	.2370
135.000	.3220
180.000	.3220
225.000	.1750
270.000	.1740
315.000	.1480

MACH (1) = 1.100 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3100	.3930	.2630	-.6250	-.4560	-.2920	.0550	.0150	-.0360	-.0180	.0030	-.2150	.2030	.3280	.2920
45.000	1.3100	.4090	.2880	-.6040	-.4210	-.2020							.3000	.4630	.3830
90.000	1.3100	.4410	.2890	-.5980	-.3620	-.1220	.1140	.0120	-.1020	.0780	.0430	-.1880	.3160	.5230	.4340
135.000	1.3100	.4470	.3210	-.5990	-.3740	-.0880							.2810	.5480	.4330
180.000	1.3100	.4500	.3180	-.5940	-.3540	-.0370	.1350	-.0230	-.1410	.2050	.0870	-.2970	.2440	.4890	.3140
225.000	1.3100	.4750	.3580	-.5940	-.3590	-.0190	.1140						.1390	.1620	.0280
270.000	1.3100	.4780	.3610	-.5960	-.8410	-.1830	-.0750	-.1930			-.0720	-.1780	.0320	.0790	.1560
315.000	1.3100	.4280	.2750	-.6390	-.6610	-.1720	.0330						.0430	.0690	.2170

X/LS	.9879

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBHS34)

MACH (1) = 1.100 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.1920
45.000	.2310
90.000	.2760
135.000	.3060
180.000	.3010
225.000	.1960
270.000	.0940
315.000	.2050

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2920	.3660	.2630	-.6320	-.4500	-.2000	.0280	.0210	-.0530	-.0310	-.0050	-.1340	.2380	.3620	.3880
45.000	1.2920	.3580	.2630	-.6160	-.4460	-.1830							.2940	.4150	.3910
90.000	1.2920	.3870	.2620	-.6190	-.4260	-.1170	.0750	-.0420	-.1300	.0450	.0060	-.1650	.3150	.4580	.3960
135.000	1.2920	.4090	.2510	-.6170	-.3990	-.1240							.2970	.4810	.3850
180.000	1.2920	.4410	.3180	-.6000	-.3190	-.1130	.0840	-.0910	-.2080	.1310	-.0430	-.2870	.2560	.4360	.2790
225.000	1.2920	.4710	.3790	-.5890	-.5160	-.0830	.0800						.1600	.1480	.0260
270.000	1.2920	.4580	.5590	-.4000	-.6260	-.1630	-.0790	-.1570			-.0880	-.1720	.0360	.0660	.1100
315.000	1.2920	.4000	.2820	-.6430	-.6370	-.1220	-.0050						.0820	.1340	.1660

X/LS .9670

PHI	
.000	.2190
45.000	.2830
90.000	.2830
135.000	.2740
180.000	.2590
225.000	.1590
270.000	.1280
315.000	.2360

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBM334)

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2710	.3160	.2800	-.6320	-.4200	-.1600	-.0470	.0140	-.0730	.0000	.0040	-.0670	.2740	.4410	.4330
													.3280	.4150	.3690
45.000	1.2710	.3070	.2330	-.6340	-.4710	-.1780							.2770	.3530	.3030
90.000	1.2710	.3200	.2310	-.6400	-.4680	-.1200	.0410	-.0670	-.1670	.0720	.0120	-.1420	.2730	.3690	.2990
135.000	1.2710	.3500	.2500	-.6360	-.4170	-.1690							.2850	.3850	.2290
180.000	1.2710	.3930	.3160	-.5930	-.2910	-.1740	.0310	-.1620	-.2610	.0860	-.0530	-.2400	.1840	.1400	.0110
225.000	1.2710	.4200	.4050	-.5510	-.4520	-.1210	.0450						.0500	.0940	.0760
270.000	1.2710	.3840	.5830	-.3860	-.8170	-.1590	-.1180	-.1540			-.0530	-.1730	.1550	.2690	.1480
315.000	1.2710	.3480	.3050	-.6130	-.6010	-.1040	-.0745								

X/LS	.9670
PHI	
.000	.2990
45.000	.3440
90.000	.2580
135.000	.1980
180.000	.1620
225.000	.1170
270.000	.1000
315.000	.2610

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2330	.2270	.2520	-.6250	-.4130	-.1660	-.1110	-.0100	-.0630	-.0220	.0350	-.1020	.4610	.5660	.4780
													.3370	.4060	.3540
45.000	1.2330	.2140	.1930	-.6460	-.4780	-.1090							.4400	.3970	.2820
90.000	1.2330	.2310	.1930	-.6510	-.4900	-.1070	.0070	-.0930	-.1770	.0630	.0470	-.1870	.2310	.3060	.2190
135.000	1.2330	.2410	.2050	-.6470	-.4410	-.2500							.2310	.2690	.0850
180.000	1.2330	.3110	.3200	-.5820	-.2510	-.2730	-.0030	-.2210	-.0450	.0870	-.0640	-.2440	.1410	-.0960	-.1080
225.000	1.2330	.3750	.4060	-.5530	-.3220	-.2240	-.0070						-.0060	.0040	-.0050
270.000	1.2330	.3160	.5850	-.3780	-.7690	-.1790	-.1180	-.1500			-.0500	-.2350	.2660	.2790	.0450
315.000	1.2330	.2800	.3420	-.5910	-.5330	-.1050	-.0960								

X/LS	.9670
PHI	
.000	.2700
45.000	.3480
90.000	.2590
135.000	.1780
180.000	.1370

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNS34)

AMES 11-707 IA9 ORA + S3 + T9 SRM BOOSTER

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9679

PHI	
225.000	.0380
270.000	.0090
315.000	.2810

MACH (2) = 1.249 BETAT (1) = -8.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3950	.3930	.3440	-.4210	-.3180	-.3110	-.0050	.0510	-.0160	-.0360	.0480	-.2280	.0630	.1950	.1310
45.000	1.3950	.3990	.3970	-.3920	-.2800	-.1570							.1570	.3530	.3290
90.000	1.3950	.4280	.3980	-.3760	-.2140	-.1150	-.0130	.0960	-.0180	-.0160	.0890	-.0720	.2490	.4840	.4500
135.000	1.3950	.4160	.4080	-.3960	-.2510	-.0980							.1780	.5420	.4890
180.000	1.3950	.4060	.3530	-.4160	-.3180	-.1310	.0990	.0640	-.0280	.2090	.2050	-.2390	.0230	.4800	.4900
225.000	1.3950	.4530	.3780	-.4360	-.4860	.0410	.1010						.0480	.1940	.1080
270.000	1.3950	.4890	.6570	-.2100	-.6540	-.1780	-.1380	-.2170			-.1190	-.2010	.0280	-.0080	.1130
315.000	1.3950	.4480	.3640	-.4370	-.4970	-.2460	.0320						.0460	.0290	.1530

X/LS .9679

PHI	
.000	.1320
45.000	.1270
90.000	.2640
135.000	.3690
180.000	.3870
225.000	.2640
270.000	.1270
315.000	.2030

MACH (2) = 1.250 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3710	.2920	.3230	-.4210	-.3190	-.3200	.0190	.0240	-.0250	-.0320	.0370	-.1700	.1400	.2630	.2230
45.000	1.3710	.2190	.3500	-.4010	-.2890	-.1810							.2080	.3800	.3350
90.000	1.3710	.2610	.3520	-.3990	-.2630	-.1230	-.0830	.0670	-.0510	-.0540	.0750	-.0720	.2380	.4420	.4090
135.000	1.3710	.2480	.3760	-.4010	-.2670	-.0780							.1690	.4770	.4610
180.000	1.3710	.3120	.3680	-.4010	-.2680	-.0660	.0280	.0370	-.0220	.0120	.1400	-.2670	.1190	.3940	.4610
225.000	1.3710	.4140	.4070	-.4120	-.4350	-.0230	.0380						.1090	.2340	.0920

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM334)

MACH (2) = 1.290 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3710	.4840	.8330	-.2070	-.6390	-.1730	-.0870	-.1520			-.1380	-.1730	.0440	-.0490	.0440
315.000	1.3710	.4100	.3500	-.4380	-.4970	-.2480	.0370						.0470	.0290	.1380

X/LS	.9670
PHI	
.000	.1510
45.000	.2790
90.000	.2920
135.000	.3360
180.000	.3550
225.000	.2420
270.000	.1580
315.000	.2190

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3510	.1790	.3100	-.4300	-.3370	-.3020	.0080	-.0040	-.0160	-.0440	.0360	-.1260	.1650	.2840	.3420
45.000	1.3510	.1420	.3080	-.4150	-.3120	-.1950							.2180	.3420	.3670
90.000	1.3510	.1690	.3140	-.4150	-.2970	-.1370	-.0950	.0380	.0690	-.0630	.0530	-.0720	.2330	.3950	.4010
135.000	1.3510	.1680	.3480	-.4130	-.2830	-.1030							.1660	.4340	.4380
180.000	1.3510	.2180	.3800	-.4010	-.2600	-.0910	.0970	-.0070	-.1520	.1390	.0340	-.2240	.1150	.3510	.4350
225.000	1.3510	.4480	.4450	-.4000	-.4040	-.0900	.1130						.1060	.1700	.0290
270.000	1.3510	.4710	.6560	-.2100	-.6290	-.1880	.0270	-.1530			-.0560	-.1800	-.0170	.0200	.0180
315.000	1.3510	.4200	.3460	-.4440	-.4940	-.2010	.0160						.0520	.0940	.1170

X/LS	.9670
PHI	
.000	.1820
45.000	.3180
90.000	.3380
135.000	.3400
180.000	.3360
225.000	.2090
270.000	.0870
315.000	.1910

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS34)

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)SRM-BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3110	.2290	.2770	-.4390	-.3420	-.2610	-.0350	-.0350	-.0220	-.0560	.0180	-.0760	.2200	.3790	.4390
45.000	1.3110	.1540	.2530	-.4370	-.3420	-.1900							.3120	.3940	.3980
90.000	1.3110	.1280	.2490	-.4360	-.3270	-.1330	-.0570	.0040	-.1020	-.0310	.0710	-.0760	.1700	.2900	.3200
135.000	1.3110	.2180	.2840	-.4350	-.3120	-.1260							.1930	.3700	.3580
180.000	1.3110	.3200	.3490	-.4130	-.2450	-.1010	.0340	-.0520	-.1970	.0690	-.0340	-.2020	.1550	.3510	.3550
225.000	1.3110	.3910	.4410	-.3920	-.3710	-.0050	.0420						.1160	.1840	-.0080
270.000	1.3110	.3720	.6470	-.2120	-.6300	-.1290	.0130	-.1780			-.0350	-.17[illegible]	.0130	.0740	-.0020
315.000	1.3110	.3120	.3440	-.4410	-.4800	-.1200	-.0320						.1040	.2280	.1320

X/LS	.9670
PHI	
.000	.2868
45.000	.3890
90.000	.3330
135.000	.2890
180.000	.2650
225.000	.1620
270.000	.0900
315.000	.2390

MACH (2) = 1.247 BETAT (5) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2840	.1780	.2810	-.4480	-.3180	-.1550	-.0990	-.0280	.0070	-.0600	.0190	-.0770	.3220	.5900	.5400
49.000	1.2840	.1180	.2080	-.4520	-.3580	-.1620							.2440	.3569	.3980
90.000	1.2840	.1230	.2060	-.4480	-.3430	-.0980	-.0730	-.0140	-.1020	.0320	.0380	-.1030	.3430	.3980	.3280
135.000	1.2840	.1560	.2410	-.4530	-.3240	-.1740							.1510	.3140	.2890
180.000	1.2840	.2630	.3480	-.4100	-.2100	-.1490	-.0760	-.0800	-.1960	.0880	-.0290	-.1870	.1310	.2800	.2230
225.000	1.2840	.3500	.4560	-.3710	-.2930	-.0190	-.0380						.0730	-.0120	-.1250
270.000	1.2840	.3170	.6530	-.2010	-.6030	-.0700	-.0890	-.1140			-.0580	-.2340	-.0470	-.0120	-.1260
315.000	1.2840	.2680	.3730	-.4180	-.4580	-.0430	-.1210						.1880	.2900	.0030

X/LS	.9670
PHI	
.000	.2820
49.000	.4390
90.000	.3290
135.000	.2520
180.000	.2110

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBM534)

AMES 11-7D7 IA9 02A + S3 + T9 SRM BOOSTER

MACH (2) = 1.247 BETAT (3) = 0.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0620
270.000	-.0230
315.000	.1850

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBHS39) (27 APR 73)

AMES 11-FDT IA9 OEA + S3 + T9 SRM BOOSTER

REFERENCE DATA

SREF = 2.4810 SQ.FT. XMRP = 28.9300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .900
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.102 BETAT (1) = -8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3180	.4820	.3080	-.6200	-.4140	-.2610	.0770	.0350	-.0170	.0530	.0620	-.2780	.1800	.3200	.2360
													.3070	.4980	.3970
45.000	1.3180	.5110	.3500	-.5840	-.3530	-.1700							.3720	.5630	.4530
90.000	1.3180	.5020	.3490	-.5820	-.3260	-.1390	.1420	.0810	-.0430	.1530	.1630	-.1150	.3150	.5630	.4180
135.000	1.3180	.4300	.2960	-.6190	-.3920	-.0830							.2000	.5030	.2950
180.000	1.3180	.3900	.2420	-.6380	-.4540	.0350	.1330	.0180	-.0800	.2890	.2360	-.3730	.0550	.1540	.0360
225.000	1.3180	.4100	.2440	-.6890	-.6740	-.0530	.1160						.0340	.0810	.1580
270.000	1.3180	.4700	.5410	-.4120	-.7660	-.1140	.0420	-.0860			-.0660	-.1980	.0340	.0620	.2140
315.000	1.3180	.4840	.3380	-.6160	-.6060	-.1100	.0600								

X/LS	.9670
PHI	
.000	.1650
45.000	.1840
90.000	.2870
135.000	.3320
180.000	.2920
225.000	.1810
270.000	.2280
315.000	.1820

MACH (1) = 1.095 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3070	.4520	.3110	-.6100	-.4030	-.2860	.0640	.0360	-.0130	-.0120	.0350	-.1460	.2790	.4000	.3480
													.3630	.5010	.4190
45.000	1.3070	.4470	.3190	-.5950	-.3900	-.1930							.3620	.5130	.4230
90.000	1.3070	.4250	.3180	-.6010	-.3850	-.1500	.1420	.0500	-.0770	.0820	.1440	-.1120	.3170	.5190	.4020
135.000	1.3070	.3900	.2810	-.6200	-.4180	-.1060							.2490	.4650	.2980
180.000	1.3070	.3810	.2560	-.6150	-.4410	-.0300	.1410	-.0090	-.1200	.2110	.1620	-.3040	.1310	.1590	.0270
225.000	1.3070	.4090	.2650	-.6480	-.6550	-.0580	.1070						.0660	.1070	.1910
270.000	1.3070	.4660	.5490	-.4020	-.8420	-.1030	.0510	-.0320			-.0920	-.1560	.0860	.1250	.2320
315.000	1.3070	.4760	.3470	-.6030	-.5910	-.0950	.0470								

X/LS	.9670

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNS35)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (1) = 1.095 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.2210
45.000	.2700
90.000	.3120
135.000	.3060
180.000	.2780
225.000	.1680
270.000	.2130
315.000	.2300

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2890	.4150	.3090	-.6090	-.3600	-.2240	.0260	.0350	-.0320	-.0460	.0350	-.0920	.3110	.4350	.4180
45.000	1.2890	.3840	.2870	-.6070	-.4150	-.1930							.3270	.4360	.4090
90.000	1.2890	.3600	.2900	-.6130	-.4210	-.1230	.1010	-.0020	-.1060	.0390	.0870	-.1240	.3230	.4230	.3740
135.000	1.2890	.3540	.2620	-.6190	-.4290	-.1160							.2990	.4500	.3650
180.000	1.2890	.3770	.2680	-.6160	-.4140	-.0780	.1020	-.0590	-.1580	.1240	.0880	-.2690	.2560	.3970	.2560
225.000	1.2890	.4040	.2930	-.6310	-.6200	-.0400	.0870						.1700	.1370	.0200
270.000	1.2890	.4500	.5580	-.3900	-.8290	-.0390	.0390	-.0310			-.0620	-.1480	.0470	.1140	.1340
315.000	1.2890	.4640	.3590	-.5910	-.5650	-.0590	.0130						.1380	.2110	.1960

X/LS .9670

PHI	
.000	.2770
45.000	.3270
90.000	.3030
135.000	.2610
180.000	.2410
225.000	.1410
270.000	.1780
315.000	.2030

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 ORA + S3 + T9 SRM BOOSTER (RBM335)

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2720	.3890	.3020	-.6080	-.3460	-.1740	-.0690	.0260	-.0620	-.0430	.0160	-.0630	.4250	.5530	.4680
45.000	1.2720	.3330	.2470	-.6210	-.4440	-.2060							.2540	.3500	.3840
90.000	1.2720	.3210	.2510	-.6350	-.4620	-.1160	.0560	-.0260	-.1430	.0640	.0560	-.0780	.3010	.3650	.3000
135.000	1.2720	.3220	.2420	-.6320	-.4480	-.1320							.2660	.3540	.2830
180.000	1.2720	.3360	.2710	-.6140	-.3680	-.1400	.0540	-.1270	-.1990	.0760	.0420	-.2480	.2850	.3450	.2030
225.000	1.2720	.3670	.3250	-.6030	-.5680	-.0780	.0540						.2240	.1160	.0230
270.000	1.2720	.3990	.5830	-.3770	-.8130	-.0240	-.0060	-.0450			-.0200	-.1550	.0520	.0820	.1060
315.000	1.2720	.4260	.3840	-.5630	-.5170	-.0570	-.0550						.3280	.2920	.1670

X/LS	.9670
PHI	
.000	.2850
45.000	.3680
90.000	.2890
135.000	.1970
180.000	.1730
225.000	.0910
270.000	.1600
315.000	.2940

MACH (1) = 1.108 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2380	.3120	.2960	-.5960	-.3410	-.1650	-.1340	-.0040	-.0340	-.0390	.0440	-.1000	.5210	.5130	.4700
45.000	1.2380	.2430	.1980	-.6450	-.4600	-.1780							.3810	.4580	.3390
90.000	1.2380	.2440	.1980	-.6490	-.4940	-.0860	.0110	-.0450	-.1470	.0680	.0890	-.1380	.3960	.3900	.2560
135.000	1.2380	.2410	.2020	-.6490	-.4540	-.1420							.3410	.3360	.2130
180.000	1.2380	.2630	.2710	-.6040	-.3540	-.2060	.0080	-.1850	-.0100	.1050	.0290	-.2250	.2610	.2540	.0840
225.000	1.2380	.3040	.3560	-.5840	-.4950	-.1300	.0190						.1380	-.0460	-.1010
270.000	1.2380	.3340	.3910	-.3710	-.7650	-.0470	-.0270	-.0980			-.0320	-.2270	.0010	.0300	-.0210
315.000	1.2380	.3750	.4090	-.5430	-.4350	-.0470	-.0720						.2780	.2930	.0320

X/LS	.9670
PHI	
.000	.3070
45.000	.3500
90.000	.2320
135.000	.1480
180.000	.1230

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7X7 IA9 O2A + S3 + T9 SRM BOOSTER (RBMS33)

MACH (1) = 1.106 BETAT (5) = 0.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0290
270.000	-.0240
315.000	.3160

MACH (2) = 1.248 BETAT (1) = -0.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3920	.4530	.3950	-.4110	-.2870	-.2690	.0100	.0580	.0100	-.0090	.0770	-.1620	.1220	.2850	.2000
45.000	1.3920	.4570	.4350	-.3610	-.2330	-.1240							.2490	.4140	.3780
90.000	1.3920	.4380	.4330	-.3610	-.2190	-.1220	-.0110	.1340	.0160	-.0080	.1750	-.0110	.3080	.4730	.4410
135.000	1.3920	.3670	.3620	-.4100	-.2880	-.2000							.1880	.4800	.4420
180.000	1.3920	.3550	.2950	-.4410	-.3590	-.0720	.0410	.0830	-.0230	.2670	.2900	-.2250	.0430	.4820	.4440
225.000	1.3920	.3980	.2920	-.4820	-.5000	-.1580	.0620						.0620	.2070	.1070
270.000	1.3920	.4680	.6380	-.2220	-.5670	-.1830	.0300	-.0490			-.1610	-.1760	.0530	.0220	.1100
315.000	1.3920	.4770	.4380	-.4090	-.4410	-.1960	.0350						.0720	.0500	.1790

X/LS .9670

PHI	
.000	.1530
45.000	.2560
90.000	.3280
135.000	.3800
180.000	.3560
225.000	.2640
270.000	.0800
315.000	.2240

MACH (2) = 1.244 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3660	.3980	.3750	-.4110	-.2890	-.2810	.0290	.0160	.0000	-.0160	.0690	-.1200	.2220	.3350	.3500
45.000	1.3660	.3200	.3830	-.3980	-.2730	-.1650							.2850	.4260	.4140
90.000	1.3660	.2700	.3830	-.4040	-.2720	-.1450	-.0440	.0990	-.0140	-.0410	.1360	-.0250	.2680	.4360	.4110
135.000	1.3660	.2020	.3340	-.4240	-.3060	-.1360							.1970	.4650	.4210
180.000	1.3660	.2620	.3020	-.4280	-.3240	-.1200	.0290	.0490	-.0850	.1410	.1820	-.2460	.0860	.4240	.4220
225.000	1.3660	.3530	.3070	-.4690	-.5130	-.0300	.0440						.1070	.2140	.0800

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS35)

MACH (2) = 1.244 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3660	.4370	.6350	-.2220	-.6450	-.1620	.0410	-.0100			-.1190	-.1320	.0620	.0420	.0750
315.000	1.3660	.4470	.4310	-.4020	-.4360	-.2560	.0440						.0690	.0940	.1750

X/LS	.9670
PHI	
.000	.2040
45.000	.3250
90.000	.3690
135.000	.3520
180.000	.3330
225.000	.2290
270.000	.1630
315.000	.2380

MACH (2) = 1.250 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9398
PHI															
.000	1.3480	.2790	.3670	-.4110	-.2920	-.2430	-.0040	-.0110	-.0020	-.0300	.0450	-.0630	.2400	.3670	.3880
45.000	1.3480	.1920	.3380	-.4110	-.2980	-.1870							.2520	.3590	.3660
90.000	1.3480	.1620	.3400	-.4160	-.3040	-.1570	-.0420	.0610	-.0540	-.0510	.0920	-.0410	.2630	.3600	.3510
135.000	1.3480	.1200	.3080	-.4250	-.3140	-.1390							.1870	.4200	.3920
180.000	1.3480	.2380	.3050	-.4280	-.3200	-.1510	.0250	.0220	-.1270	.1120	.0660	-.2210	.1250	.3660	.3930
225.000	1.3480	.3700	.3380	-.4510	-.4990	-.0550	.0300						.1250	.1790	.0290
270.000	1.3480	.4370	.6520	-.2090	-.6330	-.1660	.0310	-.0240			-.0630	-.1640	.0150	.0600	.0280
315.000	1.3480	.4450	.4320	-.3990	-.4290	-.2230	.0070						.1240	.1720	.1380

X/LS	.9670
PHI	
.000	.2430
45.000	.3580
90.000	.3330
135.000	.2970
180.000	.3010
225.000	.1860
270.000	.0770
315.000	.2790

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-70T IA9 OEA + S3 + T9 SRM BOOSTER (RBNS39)

MACH (2) = 1.248 BETAT (4) = 4.100

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3150	.3250	.3350	-.4190	-.2990	-.2210	-.0530	-.0450	-.0080	-.0530	.0030	-.0200	.2890	.4800	.4830
45.000	1.3150	.1420	.2700	-.4320	-.3340	-.1990							.2330	.3010	.3370
90.000	1.3150	.0830	.2680	-.4340	-.3340	-.1270	-.0370	.0250	-.0670	-.0530	.0550	-.0210	.3320	.3420	.3180
135.000	1.3150	.0890	.2610	-.4330	-.3170	-.1260							.1770	.3370	.3330
180.000	1.3150	.2600	.2990	-.4230	-.2960	-.1140	-.0430	-.0160	-.1630	.0580	.0230	-.1750	.1780	.3380	.3350
225.000	1.3150	.3330	.3570	-.4310	-.4530	-.0040	-.0330						.1470	.1830	.0010
270.000	1.3150	.3980	.6550	-.2060	-.6230	-.0260	-.0310	-.0340			-.0220	-.1530	.0240	.0820	.0020
315.000	1.3150	.4120	.4360	-.3920	-.4020	-.0870	-.0520						.2460	.3070	.1400

X/LS	.9670
PHI	
.000	.2850
45.000	.4260
90.000	.3180
135.000	.2540
180.000	.2470
225.000	.1390
270.000	.1760
315.000	.2940

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2840	.2620	.3130	-.4300	-.2770	-.1930	-.1210	-.0360	.0200	-.0570	.0070	-.0510	.4800	.5550	.5230
45.000	1.2840	.1310	.2120	-.4560	-.3630	-.2010							.2580	.3710	.3990
90.000	1.2840	.0830	.2100	-.4500	-.3420	-.0930	-.0570	.0090	-.0630	.0020	.0560	-.0610	.3620	.4020	.3130
135.000	1.2840	.1270	.2360	-.4480	-.3310	-.1240							.1970	.3730	.2780
180.000	1.2840	.2070	.3000	-.4280	-.2730	-.1150	-.1420	-.0530	-.1580	.0830	.0280	-.1770	.1580	.3090	.2790
225.000	1.2840	.2860	.3810	-.4170	-.4090	.0060	-.1710						.0860	.0190	-.1060
270.000	1.2840	.3420	.6590	-.1980	-.6000	.0470	-.1620	-.0330			-.0560	-.2160	-.0180	.0320	-.1110
315.000	1.2840	.3760	.4570	-.3770	-.3530	.0050	-.1270						.2660	.3210	.0290

X/LS	.9670
PHI	
.000	.3110
45.000	.4270
90.000	.3180
135.000	.2280
180.000	.1940

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBM335)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (2) = 1.240 BETAT (5) = 0.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.0550
270.000	.0240
315.000	.3130

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A (RBHS30) (27 APR 73)

AMES 11-7ft IA9 C2A + S3 + T9 SRM BOOSTER

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .900
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.103 BETAT (1) = -8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3090	.5300	.3480	-.5960	-.3570	-.2320	.0700	.0510	.0050	.0740	.1020	-.2310	.2770	.3920	.2890
													.4030	.5480	.4400
45.000	1.3090	.5420	.3730	-.5670	-.3190	-.1550							.3840	.5330	.4420
90.000	1.3090	.4810	.3720	-.5820	-.3330	-.1650	.1290	.0780	-.0290	.1570	.2010	-.0750	.2910	.4590	.3600
135.000	1.3090	.3700	.2480	-.6340	-.4350	-.0350							.1950	.4200	.2560
180.000	1.3090	.3330	.1880	-.6530	-.5080	-.0030	.0940	.0260	-.0280	.2570	.2440	-.3630	.0990	.1600	.0620
225.000	1.3090	.3560	.1590	-.7020	-.3830	-.1220	.0660						.0790	.1150	.1590
270.000	1.3090	.4390	.3020	-.4250	-.3650	-.1500	.0730	.0270			-.1070	-.1880	.1010	.1160	.2320
315.000	1.3090	.5100	.3880	-.5800	-.5470	-.0910	.0750								

X/LS	.9670
PHI	
.000	.1870
45.000	.2250
90.000	.3250
135.000	.3290
180.000	.2520
225.000	.1410
270.000	.2350
315.000	.1810

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3000	.5040	.3480	-.5950	-.3470	-.1940	.0440	.0620	.0040	-.0080	.0720	-.1270	.3710	.4740	.3950
													.4170	.5390	.4480
45.000	1.3000	.4680	.3330	-.5860	-.3640	-.1830							.3290	.4410	.3930
90.000	1.3000	.4070	.3320	-.6060	-.3950	-.1780	.1330	.0490	-.0710	.0630	.1490	-.1040	.2910	.4120	.3390
135.000	1.3000	.3430	.2430	-.6330	-.4560	-.0650							.2530	.4220	.2690
180.000	1.3000	.3320	.2090	-.6210	-.4940	-.0180	.1120	.0020	-.0810	.1830	.1840	-.3090	.1530	.1660	.0540
225.000	1.3000	.3570	.1880	-.6880	-.5920	-.1130	.0620						.0960	.1370	.1820
270.000	1.3000	.4430	.5160	-.4160	-.5050	-.1530	.0660	.0120			-.0920	-.1430	.1560	.1820	.2340
315.000	1.3000	.5130	.3990	-.5730	-.5290	-.0850	.0310								

X/LS	.9870

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OBA + S3 + T9 SRM BOOSTER (RBMS36)

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
.000	.2600
45.000	.3100
90.000	.3370
135.000	.2940
180.000	.2280
225.000	.1430
270.000	.1950
315.000	.2390

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2830	.4680	.3420	-.6000	-.3200	-.1580	-.0060	.0470	-.0170	-.0580	.0540	-.0630	.4180	.5230	.4540
45.000	1.2830	.4020	.2980	-.6060	-.3960	-.1980							.3450	.4710	.4200
90.000	1.2830	.3390	.2970	-.6240	-.4310	-.1550	.0830	.0100	-.1090	.0220	.1150	-.0810	.2760	.3310	.3050
135.000	1.2830	.3120	.2310	-.6370	-.4560	-.0600							.3250	.4080	.3080
180.000	1.2830	.3110	.2200	-.6370	-.4770	-.0630	.0970	-.0450	-.1150	.1130	.1140	-.2540	.3250	.3950	.2340
225.000	1.2830	.3430	.2110	-.6820	-.6960	-.1050	.0720						.1890	.1260	.0440
270.000	1.2830	.4340	.5300	-.4090	-.7610	-.1410	.0580	-.0140			-.0460	-.1270	.0840	.1690	.1560
315.000	1.2830	.4990	.4090	-.5580	-.5030	-.0620	-.0010						.2190	.2930	.2200

X/LS .9870

PHI	
.000	.3900
45.000	.3580
90.000	.3160
135.000	.2240
180.000	.1970
225.000	.1270
270.000	.1840
315.000	.3080

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-70T IA9 OEA + S3 + T9 SRM BOOSTER (RBHS36)

MACH (1) = 1.098 BETAT (4) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2610	.4480	.3370	-.5900	-.2820	-.1630	-.0930	.0240	-.0430	-.0750	.0330	-.0420	.3490	.5460	.4730
45.000	1.2610	.3450	.2510	-.6230	-.4180	-.2290							.3310	.4630	.3680
90.000	1.2610	.2920	.2520	-.6370	-.4710	-.1420	.0440	-.0200	-.1420	.0430	.0690	-.0910	.2960	.3570	.2790
135.000	1.2610	.2850	.2130	-.6210	-.4740	-.0980							.3730	.4020	.2980
180.000	1.2610	.2830	.2250	-.6320	-.4330	-.1340	.0650	-.1010	-.1440	.0790	.0670	-.2560	.2670	.3190	.1870
225.000	1.2610	.2990	.2370	-.6550	-.6540	-.0890	.0510						.1570	.1060	.0170
270.000	1.2610	.3790	.5480	-.3910	-.8100	-.1310	.0110	-.0430			.0040	-.1630	.0360	.0960	.0700
315.000	1.2610	.4740	.4390	-.5220	-.4380	-.0620	-.0670						.3740	.2710	.1390

X/LS	.9670
PHI	
.000	.2790
45.000	.3690
90.000	.2790
135.000	.1740
180.000	.1880
225.000	.0810
270.000	.1390
315.000	.3200

MACH (1) = 1.100 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2220	.3410	.3400	-.5810	-.2810	-.1550	-.1520	.0000	-.0340	-.0520	.0310	-.0690	.4800	.5600	.5110
45.000	1.2220	.2180	.1880	-.6500	-.4470	-.2580							.3580	.3950	.2940
90.000	1.2220	.1990	.1870	-.6560	-.4960	-.0930	-.0150	-.0600	-.1540	.0500	.0700	-.1410	.3490	.3360	.2170
135.000	1.2220	.2010	.1850	-.6520	-.4760	-.0840							.3490	.3400	.2100
180.000	1.2220	.1770	.2290	-.6240	-.4290	-.1780	.0180	-.1590	-.0320	.1090	.0540	-.2360	.2580	.2660	.0980
225.000	1.2220	.1870	.2870	-.6250	-.5830	-.1140	.0220						.1120	-.0310	-.0810
270.000	1 2220	.2650	.5750	-.3790	-.7520	-.1280	-.0230	-.1010			-.0240	-.2360	.0250	.0100	-.0330
315.000	1.2220	.4170	.4560	-.5100	-.3320	-.0690	-.0760						.2620	.3270	.1370

X/LS	.9670
PHI	
.000	.3920
45.000	.3930
90.000	.2060
135.000	.1170
180.000	.1170

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNS36)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (1) = 1.100 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0320
270.000	-.0500
315.000	.3820

MACH (2) = 1.248 BETAT (1) = -8.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3820	.5100	.4380	-.3930	-.2420	-.2300	.0080	.0750	.0390	.0180	.1100	-.1250	.1950	.3330	.2640
													.3180	.4670	.4250
45.000	1.3820	.4990	.4580	-.3700	-.2070	-.1020							.3430	.4510	.4160
90.000	1.3820	.4240	.4580	-.3860	-.2260	-.1330	-.0370	.1230	.0310	.0230	.2250	.0340	.2040	.4030	.3850
135.000	1.3820	.3240	.3130	-.4340	-.3180	-.2240							.0600	.4540	.3850
180.000	1.3820	.3140	.2420	-.4570	-.3860	-.1380	.0000	.0850	-.0220	.2520	.3090	-.2080	.0800	.2300	.1200
225.000	1.3820	.3570	.2080	-.5160	-.3490	-.2170	.0260								
270.000	1.3820	.4460	.6010	-.2380	-.3810	-.2260	.0410	.0650			-.2250	-.1660	.0830	.0910	.1170
315.000	1.3820	.5060	.4880	-.3780	-.3910	-.2000	.0510						.1050	.0870	.2140

X/LS .9670

PHI	
.000	.1880
45.000	.2910
90.000	.3780
135.000	.3680
180.000	.3130
225.000	.2330
270.000	.1850
315.000	.2300

MACH (2) = 1.249 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3810	.4370	.4220	-.3910	-.2540	-.2360	.0110	.0290	.0150	-.0030	.0920	-.0920	.2740	.3920	.3850
													.3070	.4370	.4200
45.000	1.3810	.3610	.4020	-.3660	-.2540	-.1510							.2860	.3780	.3800
90.000	1.3810	.2700	.4010	-.4060	-.2800	-.1680	-.0280	.0640	-.0120	-.0370	.1740	.0180	.2090	.4100	.3620
135.000	1.3810	.1590	.2750	-.4350	-.3280	-.2030							.1020	.4770	.3640
180.000	1.3810	.2150	.2360	-.4340	-.3620	-.1060	-.0080	.0650	-.0650	.1480	.2170	-.2210	.1100	.2270	.0830
225.000	1.3810	.3040	.2000	-.5040	-.4240	-.2370	.0360								

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM536)

MACH (2) = 1.249 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3610	.4130	.6000	-.2320	-.4770	-.2520	.0430	.0510			-.1110	-.1320	.0730	.0780	.0830
315.000	1.3610	.4770	.4880	-.3700	-.3840	-.2420	.0320						.1170	.1130	.1920

X/LS	.9670
PHI	
.000	.2220
45.000	.3490
90.000	.3720
135.000	.3180
180.000	.2930
225.000	.2130
270.000	.1390
315.000	.2590

MACH (2) = 1.249 BETAT (3) = .010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3430	.3910	.4080	-.4010	-.2600	-.2060	-.0210	-.0170	.0100	-.0210	.0520	-.0330	.3380	.4590	.4510
45.000	1.3430	.2550	.3500	-.4100	-.2880	-.1800							.2790	.3900	.4080
90.000	1.3430	.1620	.3500	-.4250	-.3110	-.1860	-.0300	.0640	-.0460	-.0570	.1130	-.0200	.2430	.3090	.3030
135.000	1.3430	.0830	.2760	-.4250	-.3290	-.1720							.2660	.4350	.3410
180.000	1.3430	.1800	.2620	-.4430	-.3650	-.1390	.0040	.0480	-.1070	.0890	.0940	-.1910	.1300	.4340	.3380
225.000	1.3430	.2960	.2540	-.4910	-.5220	-.1690	.0240						.1220	.1660	.0430
270.000	1.3430	.4050	.6280	-.2230	-.5920	-.2250	.0050	.0070			-.0130	-.1400	.0510	.1050	.0470
315.000	1.3430	.4730	.4940	-.3700	-.3740	-.2220	.0030						.2090	.2590	.1670

X/LS	.9670
PHI	
.000	.2690
45.000	.3970
90.000	.3870
135.000	.2700
180.000	.2790
225.000	.1620
270.000	.0700
315.000	.2070

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 OEA + S3 + T9 SRM BOOSTER (RBM538)

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3040	.3800	.3740	-.4070	-.2490	-.1810	-.0750	-.0430	-.0080	-.0550	-.0060	.0030	.4210	.5480	.5120
45.000	1.3040	.1830	.2730	-.4330	-.3320	-.2120							.2550	.3350	.3880
90.000	1.3040	.0700	.2740	-.4360	-.3450	-.1560	-.0390	.0190	-.0660	-.0530	.0970	-.0360	.3190	.3080	.2790
135.000	1.3040	.0270	.2350	-.4360	-.3290	-.1420							.2240	.3950	.3280
180.000	1.3040	.1780	.2410	-.4480	-.3380	-.0940	-.0580	.0030	-.1410	.0480	.0870	-.1650	.1670	.3510	.3260
225.000	1.3040	.2610	.2580	-.4810	-.5200	-.0610	-.0250						.1040	.1430	.0300
270.000	1.3040	.3690	.6230	-.2210	-.6270	-.1340	-.0880	-.0110			.0020	-.1330	.0190	.0630	.0350
315.000	1.3040	.4570	.4960	-.3620	-.3430	-.1440	-.0440						.2620	.2850	.1350

X/LS	.9670
PHI	
.000	.2740
45.000	.4420
90.000	.3510
135.000	.2290
180.000	.2480
225.000	.1340
270.000	.1490
315.000	.2910

MACH (2) = 1.246 BETAT (5) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2780	.3880	.3520	-.4240	-.2310	-.1620	-.1490	-.0470	.0290	-.0350	.0010	-.0590	.4720	.5810	.5480
45.000	1.2780	.1420	.2080	-.4670	-.3670	-.2340							.3080	.4200	.3720
90.000	1.2780	.0520	.2020	-.4680	-.3630	-.1100	-.0660	-.0140	-.0820	-.0100	.0550	-.0800	.3180	.3820	.2810
135.000	1.2780	.0960	.2100	-.4540	-.3370	-.0970							.2220	.3820	.2770
180.000	1.2780	.1480	.2520	-.4540	-.3210	-.1010	-.1640	-.0390	-.1390	.0880	.0500	-.1680	.1590	.3290	.2740
225.000	1.2780	.2000	.2950	-.4550	-.4860	-.0040	-.1110						.0790	.0250	-.0660
270.000	1.2780	.3160	.6340	-.2120	-.6060	-.0310	-.2660	-.0300			-.0400	-.2050	-.0070	.0470	-.0890
315.000	1.2780	.4400	.5120	-.3450	-.2850	-.0100	-.1100						.2320	.3370	.0300

X/LS	.9670
PHI	
.000	.3430
45.000	.4470
90.000	.2920
135.000	.1980
180.000	.1830

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBM936)

AMES 11-70T IA9 OPA + 53 + T9 SRM BOOSTER

MACH (2) = 1.246 BETAT (5) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0840
270.000	-.0260
315.000	.3060

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS37) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.100 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2910	.5830	.3890	-.5840	-.3020	-.1730	.0560	.0730	.0260	.0910	.1410	-.1910	.3700	.4520	.3380
													.4790	.5860	.4680
45.000	1.2910	.5650	.3900	-.5590	-.2900	-.1460							.3880	.5080	.4070
90.000	1.2910	.4480	.3580	-.5930	-.3450	-.2020	.0580	.0610	-.0270	.1560	.2210	-.0630	.2520	.3520	.2750
135.000	1.2910	.3140	.1890	-.6570	-.4760	-.0720							.1950	.3200	.1950
180.000	1.2910	.2940	.1330	-.6720	-.5530	-.0450	.0740	.0250	-.0060	.2400	.2250	-.3330	.1620	.1730	.0810
225.000	1.2910	.3070	.0640	-.7410	-.3480	-.1890	.0470						.1000	.1560	.1920
270.000	1.2910	.4040	.4490	-.4470	-.3640	-.2000	.0580	.0670			-.0070	-.1750	.1450	.1670	.2460
315.000	1.2910	.5380	.4280	-.5330	-.4960	-.0500	.0610								

X/LS	.9670
PHI	
.000	.2130
45.000	.2640
90.000	.3950
135.000	.3120
180.000	.1950
225.000	.0980
270.000	.1980
315.000	.2070

MACH (1) = 1.100 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2830	.5590	.3840	-.5760	-.2790	-.1200	.0140	.0850	.0250	.0020	.1110	-.0730	.4470	.5300	.4300
													.4790	.5670	.4520
45.000	1.2830	.4930	.3430	-.5780	-.3370	-.1780							.3190	.3980	.3410
90.000	1.2830	.3710	.3420	-.6150	-.4060	-.2220	.0630	.0410	-.0840	.0430	.1750	-.0850	.2790	.3240	.2430
135.000	1.2830	.2800	.1890	-.6510	-.4930	-.0760							.3020	.3690	.2160
180.000	1.2830	.2760	.1500	-.6420	-.5400	-.0520	.0950	.0160	-.0630	.1740	.1980	-.2780	.2130	.1680	.0700
225.000	1.2830	.2910	.0740	-.7520	-.4030	-.2040	.0550						.1150	.1690	.1770
270.000	1.2830	.3970	.4560	-.4420	-.4070	-.2230	.0320	.0490			-.0430	-.1370	.2070	.2460	.2460
315.000	1.2830	.5430	.4430	-.5350	-.4700	-.0430	.0120								

X/LS	.9670

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBHS37)

MACH (1) = 1.100 BETAT (2) = -4.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.2870
45.000	.3410
90.000	.3490
135.000	.2810
180.000	.1530
225.000	.1140
270.000	.2090
315.000	.2660

MACH (1) = 1.096 BETAT (3) = .010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CF

X/LS	.0000	.0341	.0967	.1136	.1422	.1991	.2344	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2650	.5390	.3810	-.5770	-.2410	-.0730	-.0300	.0480	-.0060	-.0560	.0760	-.0340	.3050	.3650	.4600
45.000	1.2650	.4170	.2960	-.6020	-.3640	-.1840							.4190	.5100	.4050
90.000	1.2650	.3080	.2990	-.6350	-.4440	-.2070	.0390	.0000	-.1340	.0010	.1330	-.0850	.2790	.3100	.2500
135.000	1.2650	.2570	.1870	-.6520	-.4890	-.0490							.3350	.3220	.2210
180.000	1.2650	.2620	.1690	-.6550	-.5270	-.0590	.0910	-.0300	-.0870	.1110	.1430	-.2470	.3840	.3650	.2050
225.000	1.2650	.2640	.0990	-.7270	-.4540	-.1830	.0660						.2180	.1410	.0570
270.000	1.2650	.3780	.4690	-.4410	-.4620	-.2490	.0250	-.0100			-.0190	-.1100	.1110	.1900	.1740
315.000	1.2650	.5410	.4640	-.5160	-.4330	-.0380	-.0160						.2810	.3400	.2260

X/LS .9670

PHI	
.000	.3450
45.000	.3830
90.000	.3120
135.000	.1920
180.000	.1270
225.000	.1020
270.000	.1820
315.000	.3020

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A (RUN537)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (1) = 1.100 BETAT (4) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2440	.4970	.3700	-.5730	-.2230	-.1330	-.1100	.0290	-.0400	-.0720	.0410	-.0300	.3500	.3700	.4960
45.000	1.2440	.3440	.2430	-.6290	-.3920	-.2440							.3930	.4520	.3380
90.000	1.2440	.2530	.2430	-.6530	-.4850	-.2010	.0160	-.0280	-.1580	.0330	.0790	-.1060	.2820	.2920	.2140
135.000	1.2440	.2390	.1840	-.6550	-.5000	-.0840							.3980	.3820	.2530
180.000	1.2440	.2270	.1840	-.6500	-.4840	-.1000	.0710	-.0830	-.1090	.0950	.0950	-.2570	.2770	.2920	.1590
225.000	1.2440	.2190	.1460	-.7030	-.7330	-.1320	.0410						.2080	.1350	.0400
270.000	1.2440	.3180	.4920	-.4210	-.8130	-.4430	-.0050	-.0480			.0070	-.1460	.0760	.1010	.1270
315.000	1.2440	.5050	.4880	-.4820	-.3720	-.0460	-.0570						.3700	.2960	.1770

X/LS	.9670
PHI	
.000	.3250
45.000	.3880
90.000	.2550
135.000	.1330
180.000	.1470
225.000	.0800
270.000	.1050
315.000	.3090

MACH (1) = 1.099 BETAT (5) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2020	.4020	.3760	-.5620	-.2020	-.1790	-.1760	-.0130	-.0050	-.0870	.0190	-.0390	.5560	.6100	.5390
45.000	1.2020	.2220	.1720	-.6580	-.4270	-.3210							.3300	.3730	.2730
90.000	1.2020	.1570	.1720	-.6690	-.5130	-.1350	-.0450	-.1100	-.1440	.0210	.0500	-.1100	.3110	.2940	.1730
135.000	1.2020	.1410	.1670	-.6440	-.5020	-.0570							.3610	.3700	.2390
180.000	1.2020	.0910	.1950	-.6450	-.4800	-.1320	.0230	-.1340	-.0190	.1010	.0500	-.2430	.2700	.2670	.1070
225.000	1.2020	.0800	.1970	-.6750	-.6550	-.1130	-.0270						.1320	-.0040	-.0630
270.000	1.2020	.2060	.3060	-.4080	-.7240	-.3390	-.0650	-.1130			-.0180	-.1990	.0470	.0030	-.0570
315.000	1.2020	.4550	.5210	-.4570	-.2470	-.0860	-.0610						.3250	.3430	.0370

X/LS	.9670
PHI	
.000	.3780
45.000	.4140
90.000	.1990
135.000	.0900
180.000	.1340

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBHS37)

MACH (1) = 1.099 BETAT (5) = 8.280

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0400
270.000	-.0200
315.000	.4180

MACH (2) = 1.247 BETAT (1) = -8.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3670	.5710	.4730	-.3820	-.2020	-.1860	.0190	.0700	.0670	.0260	.1510	-.0920	.2720	.4060	.3390
45.000	1.3670	.5380	.4720	-.3630	-.1890	-.0850							.3780	.5150	.4690
90.000	1.3670	.4090	.4520	-.3980	-.2370	-.1480	-.1340	.0310	.0230	.0290	.2520	.0490	.3420	.4170	.3720
135.000	1.3670	.2870	.2640	-.4580	-.3510	-.2300							.2190	.2580	.3070
180.000	1.3670	.2880	.1890	-.4750	-.3300	-.1970	-.0430	.0780	.0050	.2280	.3100	-.1890	.0660	.3620	.3040
225.000	1.3670	.3150	.1140	-.4540	-.3130	-.2570	-.0090						.0910	.2780	.1070
270.000	1.3670	.4190	.5510	-.2580	-.3470	-.2700	-.0010	.1020			-.1810	-.1600	.0920	.1060	.1010
315.000	1.3670	.5390	.5300	-.3540	-.3420	-.1720	.0500						.1260	.1140	.2220

X/LS .9670

PHI	
.000	.2170
45.000	.3300
90.000	.4170
135.000	.3470
180.000	.2500
225.000	.1780
270.000	.1360
315.000	.2510

MACH (2) = 1.248 BETAT (2) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3540	.5080	.4640	-.3800	-.2190	-.1860	.0130	.0210	.0420	.0060	.1090	-.0540	.3350	.4590	.4290
45.000	1.3540	.4150	.4180	-.3870	-.2380	-.1450							.3490	.4770	.4480
90.000	1.3540	.2700	.3890	-.4240	-.2970	-.1940	-.0590	.0140	-.0160	-.0540	.2120	.0190	.2780	.3370	.3120
135.000	1.3540	.1260	.2320	-.4620	-.3710	-.2320							.2590	.3460	.3060
180.000	1.3540	.1920	.1780	-.4600	-.3850	-.1630	-.0300	.0740	-.0460	.1510	.2830	-.2100	.1360	.3180	.3060
225.000	1.3540	.2500	.0910	-.5530	-.4060	-.3120	.0190						.1400	.2690	.0710

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 SRM BOOSTER (RBM537)

MACH (2) = 1.248 BETAT (2) = -4.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3540	.3780	.5470	-.2590	-.4330	-.3080	-.0040	.0610			-.0800	-.1170	.0890	.1080	.0710
315.000	1.3540	.5120	.5360	-.3470	-.3340	-.1720	.0360						.1430	.1500	.2060

X/LS	.9670
PHI	
.000	.2610
45.000	.3930
90.000	.4030
135.000	.2790
180.000	.2350
225.000	.1820
270.000	.1830
315.000	.2930

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3220	.4520	.4390	-.3840	-.2130	-.1550	-.0350	-.0190	.0120	-.0210	.0400	.0130	.3930	.5300	.4760
45.000	1.3220	.3040	.3480	-.4090	-.2800	-.1800							.2920	.4080	.4110
90.000	1.3220	.1480	.3450	-.4380	-.3290	-.2110	-.0600	.0330	-.0510	-.0640	.1360	-.0170	.2560	.2850	.2650
135.000	1.3220	.0420	.2350	-.4530	-.3900	-.2230							.3260	.3700	.2810
180.000	1.3220	.1240	.2050	-.4560	-.3890	-.1650	.0030	.0620	-.0840	.0910	.1500	-.1880	.1290	.5170	.2820
225.000	1.3220	.2020	.1450	-.5320	-.4740	-.3210	.0010						.1420	.1830	.0900
270.000	1.3220	.3400	.5710	-.2450	-.5310	-.3200	-.0630	.0170			.0130	-.1270	.0750	.1190	.0460
315.000	1.3220	.4950	.5390	-.3390	-.3180	-.1290	.0040						.2380	.3050	.1850

X/LS	.9670
PHI	
.000	.3150
45.000	.4280
90.000	.3710
135.000	.2210
180.000	.2120
225.000	.1610
270.000	.1730
315.000	.3040

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBM537)

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER

MACH (2) = 1.232 BETAT (4) = 4.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2980	.4360	.4170	-.3690	-.1910	-.1290	-.1090	-.0540	-.0200	-.0600	-.0180	.0160	.4890	.5460	.5230
45.000	1.2980	.2300	.2660	-.4370	-.3260	-.2260							.2790	.3910	.3860
90.000	1.2980	.0640	.2690	-.4570	-.3670	-.2080	-.0620	.0060	-.0680	-.0630	.0660	-.0390	.3010	.2990	.2310
135.000	1.2980	-.0100	.1970	-.4570	-.3560	-.1450							.2840	.4300	.2980
180.000	1.2980	.1110	.1890	-.4610	-.3820	-.1250	-.0260	.0260	-.1060	.0620	.0960	-.1640	.1660	.3830	.2980
225.000	1.2980	.1680	.1430	-.5280	-.4950	-.1990	-.0470						.1110	.1320	.0240
270.000	1.2980	.3180	.3730	-.2390	-.5730	-.3310	-.1460	-.0140			.0150	-.1270	.0230	.0740	.0210
315.000	1.2980	.5030	.5510	-.3260	-.2730	-.0710	-.0290						.2690	.2770	.1320

X/LS	.9670
PHI	
.000	.2980
45.000	.4570
90.000	.3360
135.000	.1970
180.000	.2320
225.000	.1280
270.000	.0800
315.000	.2640

MACH (2) = 1.247 BETAT (5) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2540	.3930	.3690	-.4010	-.1650	-.1260	-.1810	-.0680	.0410	-.0260	-.0130	-.0360	.4290	.6100	.5690
45.000	1.2540	.1470	.1890	-.4770	-.3580	-.2720							.2860	.3740	.3580
90.000	1.2540	.0170	.1840	-.4830	-.3990	-.1500	-.0880	-.0690	-.0970	-.0230	.0470	-.0780	.2990	.3410	.2320
135.000	1.2540	.0640	.1610	-.4610	-.3570	-.0760							.2130	.3660	.2810
180.000	1.2540	.0780	.1680	-.4730	-.3660	-.0980	-.1050	-.0210	-.0940	.0870	.0470	-.1720	.1570	.3460	.2660
225.000	1.2540	.0950	.1710	-.5230	-.4740	-.0490	-.1450						.0740	.0230	-.0490
270.000	1.2540	.2620	.3750	-.2340	-.5870	-.3470	-.3120	-.0510			-.0200	-.2000	-.0020	.0150	-.0490
315.000	1.2540	.4780	.5580	-.2890	-.2100	.0000	-.0770						.2610	.3920	.0160

X/LS	.9670
PHI	
.000	.4120
45.000	.4950
90.000	.2810
135.000	.1670
180.000	.1710

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBM537)

AMES 11-7D7 IA9 CBA + S3 + T9 SRM BOOSTER

MACH (2) = 1.247 BETAT (5) = 8.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0820
270.000	-.0330
315.000	.3680

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-70T IA9 OEA + S3 + T9 SRM BOOSTER (RBM330) (27 APR 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.1300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.099 BETAT (1) = -8.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2044	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2620	.6380	.4160	-.5660	-.2550	-.0640	.0300	.1050	.0500	.1050	.1600	-.1340	.4530	.4880	.3760
45.000	1.2620	.5860	.3970	-.5540	-.2700	-.1330							.5570	.6090	.4820
90.000	1.2620	.4070	.3230	-.6090	-.3680	-.2320	-.0280	.0310	-.0630	.1470	.2410	-.0470	.4040	.4730	.3540
135.000	1.2620	.2540	.1330	-.6840	-.5180	-.2140							.2170	.2580	.1870
180.000	1.2620	.2520	.0840	-.6900	-.3710	-.1770	.0250	.0330	.0070	.2400	.2320	-.3160	.2070	.2590	.1420
225.000	1.2620	.2480	-.0300	-.3740	-.4030	-.2420	.0400						.2490	.1940	.0760
270.000	1.2620	.3560	.3830	-.4730	-.4330	-.2620	-.0330	.0900			.0230	-.1600	.1060	.1550	.0730
315.000	1.2620	.5580	.4650	-.5300	-.4390	.0020	.0260						.1760	.1780	.2440

X/LS	.9670
PHI	
.000	.2270
45.000	.2960
90.000	.3720
135.000	.2820
180.000	.1210
225.000	.0500
270.000	.2330
315.000	.2330

MACH (1) = 1.099 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2590	.6190	.4170	-.5590	-.2140	-.0370	-.0170	.1100	.0410	.0120	.1190	-.0440	.5100	.5590	.4560
45.000	1.2590	.5040	.3450	-.5790	-.3210	-.1730							.5230	.5780	.4510
90.000	1.2590	.3240	.2660	-.6330	-.4260	-.2790	-.0500	.0130	-.1180	.0160	.1920	-.0720	.3130	.3620	.2820
135.000	1.2590	.2210	.1330	-.6760	-.5330	-.1790							.2390	.2480	.1620
180.000	1.2590	.2250	.0870	-.6660	-.4090	-.1500	.0640	.0160	-.0500	.1580	.2330	-.2830	.3800	.3510	.1720
225.000	1.2590	.2250	-.0440	-.4560	-.4790	-.2800	.0490						.2560	.1860	.0550
270.000	1.2590	.3420	.3830	-.4670	-.4780	-.3380	-.0110	.0650			-.0120	-.1230	.1080	.1720	.1190
315.000	1.2590	.5640	.4850	-.5020	-.4050	.0000	.0020						.2280	.2620	.2400

X/LS	.9670

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A (RBNS38)

AMES 11-7X7 IA9 O2A + S3 + T9 SRM BOOSTER

MACH (1) = 1.099 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.2970
45.000	.3850
90.000	.3620
135.000	.2170
180.000	.0790
225.000	.0790
270.000	.1940
315.000	.2700

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2400	.5720	.4110	-.5590	-.1800	-.0390	-.0510	.0620	.0100	-.0470	620	-.0100	.5740	.6160	.5030
45.000	1.2400	.4000	.2900	-.6090	-.3400	-.1980							.4650	.5170	.3860
90.000	1.2400	.2370	.2220	-.6580	-.4620	-.2930	-.0240	-.0240	-.1570	-.0280	.1430	-.0800	.3030	.2890	.1950
135.000	1.2400	.1940	.1220	-.6700	-.5280	-.1310							.3270	.2410	.1290
180.000	1.2400	.2130	.0960	-.6710	-.4570	-.1170	.0920	-.0130	-.0580	.1250	.1640	-.2350	.4450	.3530	.1300
225.000	1.2400	.1850	-.0440	-.5590	-.5440	-.2820	.0300						.2620	.1510	.0420
270.000	1.2400	.3040	.3790	-.4660	-.5170	-.4410	.0140	.0040			-.0110	-.1150	.1140	.2010	.1890
315.000	1.2400	.5530	.5020	-.4730	-.3720	-.0050	-.0030						.3440	.3430	.2260

X/LS .9670

PHI	
.000	.3820
45.000	.4080
90.000	.3050
135.000	.1440
180.000	.0530
225.000	.0570
270.000	.1540
315.000	.3140

DATE 24 SEP 93 TABULATED PRESSURE DATA - IA9A

AMES 11-*07 IA9 CEA + S3 + T9 SRM BOOSTER (RBM338)

MACH (1) = 1.095 BETAT (4) = 4.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2110	.5510	.4060	-.5440	-.1570	-.0990	-.1270	.0080	-.0330	-.0730	.0270	-.0230	.3590	.6120	.5210
45.000	1.2110	.3410	.2250	-.6320	-.3570	-.2640							.3850	.4240	.3100
90.000	1.2110	.1990	.1620	-.6710	-.4990	-.2780	-.0200	-.0470	-.1740	.0160	.0840	-.0980	.2700	.2820	.1630
135.000	1.2110	.1770	.1390	-.6670	-.5250	-.0970							.3370	.2830	.1380
180.000	1.2110	.1670	.1300	-.6610	-.5290	-.0720	.0780	-.0550	-.0730	.0980	.1070	-.2400	.3460	.3250	.1450
225.000	1.2110	.1260	.0170	-.7510	-.6330	-.2230	-.0180						.2150	.1010	.0100
270.000	1.2110	.2360	.4060	-.4530	-.7400	-.5610	-.0060	-.0350			.0180	-.1200	.1270	.1170	.0840
315.000	1.2110	.5360	.5320	-.4260	-.2810	-.0330	-.0220						.3610	.3490	.1640

X/LS	.9670
PHI	
.000	.3700
45.000	.4160
90.000	.2410
135.000	.0920
180.000	.0510
225.000	.0480
270.000	.1220
315.000	.3380

MACH (1) = 1.097 BETAT (5) = 8.310

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1750	.5000	.3890	-.5190	-.1410	-.1610	-.1790	-.0510	-.0310	-.0920	.0010	-.0140	.6040	.6290	.5420
45.000	1.1750	.2310	.1390	-.6710	-.3960	-.3730							.3470	.3650	.2340
90.000	1.1750	.1180	.1420	-.6900	-.5250	-.2360	-.0810	-.1160	-.1410	-.0010	.0280	-.0870	.2750	.2400	.1200
135.000	1.1750	.1210	.1310	-.6700	-.5280	-.0660							.3460	.3230	.1830
180.000	1.1750	.0750	.1350	-.6600	-.5130	-.0680	.0300	-.1070	-.0100	.0910	.0410	-.2330	.3270	.2280	.0770
225.000	1.1750	.0100	.0490	-.7320	-.6400	-.1460	-.0770						.1700	.0240	-.0440
270.000	1.1750	.1730	.4030	-.4460	-.6990	-.5940	-.1020	-.1520			-.0060	-.1800	.0880	.0180	-.0490
315.000	1.1750	.5300	.5510	-.3960	-.1270	-.0720	-.0490						.3720	.3490	.0410

X/LS	.9670
PHI	
.000	.3010
45.000	.4260
90.000	.1750
135.000	.0490
180.000	.0890

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS38)

MACH (1) = 1.097 BETAT (5) = 8.310

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0080
270.000	-.0220
315.000	.4530

MACH (2) = 1.245 BETAT (1) = -8.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3490	.6300	.5120	-.3660	-.1630	-.1350	.0470	.0590	.0690	.0440	.1720	-.0570	.3420	.4780	.4050
													.4270	.5770	.5060
45.000	1.3490	.5720	.4860	-.3600	-.1640	-.0720							.3520	.4100	.3410
90.000	1.3490	.3840	.4350	-.4140	-.2540	-.1760	-.1860	-.0300	-.0020	.0200	.2800	.0680	.2110	.1670	.2030
135.000	1.3490	.2410	.2010	-.4840	-.3850	-.2900							.0870	.3290	.2050
180.000	1.3490	.2570	.1330	-.4950	-.3390	-.2410	-.0680	.0450	-.0010	.2030	.3000	-.1680	.1130	.3230	.1750
225.000	1.3490	.2690	.0090	-.3810	-.3680	-.3100	-.0200						.1070	.1480	.1200
270.000	1.3490	.3810	.4930	-.2860	-.3890	-.2980	-.1010	.0730			-.1430	-.1540	.1520	.1580	.2410
315.000	1.3490	.5750	.5660	-.3320	-.2960	-.1170	.0600								

X/LS .9670

PHI	
.000	.2600
45.000	.3630
90.000	.4420
135.000	.3100
180.000	.1780
225.000	.1450
270.000	.1840
315.000	.2840

MACH (2) = 1.251 BETAT (2) = -4.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3360	.5740	.5010	-.3640	-.1630	-.1380	.0230	.0130	.0410	.0190	.1160	-.0180	.3920	.5170	.4730
													.3680	.4980	.4730
45.000	1.3360	.4930	.4220	-.3810	-.2200	-.1390							.3080	.3510	.2780
90.000	1.3360	.2480	.3680	-.4370	-.3110	-.2360	-.1910	-.0800	-.0380	-.0810	.2310	.0270	.2790	.2700	.2300
135.000	1.3360	.0890	.1750	-.4810	-.4040	-.2630							.1480	.3060	.2300
180.000	1.3360	.1670	.1210	-.4800	-.3590	-.2830	-.0530	.0620	-.0430	.1420	.3190	-.1820	.1640	.3060	.0930
225.000	1.3360	.1870	-.0160	-.4590	-.4170	-.3590	.0040								

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 SRM BOOSTER (RBM938)

MACH (2) = 1.251 BETAT (2) = -4.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3360	.3250	.4900	-.2770	-.4300	-.3440	-.0670	.0640			-.0700	-.1000	.1120	.1270	.0840
315.000	1.3360	.5460	.5770	-.3180	-.2820	-.1140	.0350						.1730	.1880	.2180

X/LS	.9670
PHI	
.000	.2870
45.000	.4190
90.000	.4200
135.000	.2470
180.000	.1970
225.000	.1440
270.000	.1390
315.000	.2770

MACH (2) = 1.246 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5975	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3000	.5320	.4750	-.3700	-.1580	-.1030	-.0390	-.0410	.0080	-.0230	.0320	.0300	.4840	.3920	.3230
45.000	1.3000	.3510	.3410	-.4130	-.2730	-.1870							.3070	.4480	.4270
90.000	1.3000	.1350	.2820	-.4570	-.3550	-.2590	-.1600	-.0240	-.0750	-.0910	.1490	-.0170	.2690	.2860	.2490
135.000	1.3000	.0110	.1830	-.4700	-.3900	-.2720							.3930	.2860	.2080
180.000	1.3000	.0990	.1540	-.4740	-.4160	-.2610	.0120	.0690	-.0580	.1030	.2190	-.1580	.1790	.5300	.2190
225.000	1.3000	.1230	.0250	-.5910	-.5010	-.3950	-.0370						.1870	.2050	.0780
270.000	1.3000	.2760	.4960	-.2730	-.5840	-.3850	-.0690	.0340			.0300	-.1050	.0860	.1410	.0580
315.000	1.3000	.5320	.5620	-.3100	-.2560	-.0620	.0040						.2740	.3290	.1990

X/LS	.9670
PHI	
.000	.3290
45.000	.4570
90.000	.3810
135.000	.2110
180.000	.1440
225.000	.1460
270.000	.1160
315.000	.2340

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (PBMS38)

MACH (2) = 1.245 BETAT (4) = 4.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2660	.4940	.4550	-.3870	-.1200	-.0800	-.1070	-.0680	-.0290	-.0240	-.0160	.0340	.4970	.5870	.5840
45.000	1.2660	.2600	.2630	-.4520	-.3160	-.2290							.3080	.4530	.3890
90.000	1.2660	.0420	.2040	-.4860	-.3960	-.2810	-.0950	-.0270	-.0820	-.0620	.1180	-.0250	.2960	.3020	.2180
135.000	1.2660	-.0220	.1490	-.4830	-.3930	-.1650							.2990	.3890	.2240
180.000	1.2660	.0650	.1270	-.4830	-.4240	-.1560	.0110	.0360	-.0820	.0670	.1610	-.1440	.2230	.3790	.2050
225.000	1.2660	.0590	.0210	-.5960	-.5370	-.3200	-.1000						.1520	.1070	.0110
270.000	1.2660	.2420	.4940	-.2690	-.6020	-.3910	-.1080	-.0170			.0340	-.1070	.0430	.0830	.0130
315.000	1.2660	.5350	.5850	-.2980	-.2090	-.0150	-.0160						.3070	.3040	.1350

X/LS	.9670
PHI	
.000	.3210
45.000	.4790
90.000	.3320
135.000	.1690
180.000	.1550
225.000	.1310
270.000	.1230
315.000	.3730

MACH (2) = 1.245 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2270	.4810	.4230	-.3900	-.1090	-.0960	-.1770	-.1260	-.0030	-.0320	-.0280	-.0010	.4740	.6420	.6030
45.000	1.2270	.1710	.1710	-.4910	-.3470	-.3040							.2800	.3570	.3200
90.000	1.2270	-.0350	.1740	-.5040	-.4300	-.2480	-.1300	-.0970	-.0790	-.0560	.0370	-.0750	.2770	.2910	.2050
135.000	1.2270	.0520	.1230	-.4820	-.3920	-.0990							.2490	.3730	.2380
180.000	1.2270	.0430	.1070	-.4820	-.4400	-.1030	-.0550	-.0100	-.0800	.0760	.0540	-.1860	.1930	.3310	.1230
225.000	1.2270	.0250	.0290	-.5890	-.5510	-.2380	-.1750						.0890	-.0090	-.0420
270.000	1.2270	.2370	.4960	-.2560	-.5600	-.4230	-.2240	-.0550			-.0010	-.1870	.0130	-.0210	-.0410
315.000	1.2270	.5350	.5950	-.2570	-.1400	.0400	-.0520						.3360	.3880	.0200

X/LS	.9670
PHI	
.000	.4200
45.000	.5110
90.000	.2780
135.000	.1340
180.000	.1460

DATE 24 SEP 73 TABULATED PRESSURE DATA - NASA

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM338)

MACH (2) = 1.249 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LB .9670

PHI	
223.000	.0540
270.000	-.0063
315.000	.5190

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.2490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHAT = -8.000 ORBINC = .000
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.129 BETAT (1) = -8.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.7990	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2520	.2900	.0780	-.6800	-.5880	-.3020	-.1780	-.1840	-.2230	-.0800	-.1020	-.3180	.0380	.0210	-.0720
45.000	1.2520	.2810	.0770	-.6570	-.5020	-.3930							-.0890	.1820	.0740
90.000	1.2520	.4260	.1170	-.5990	-.3380	-.1450	-.2690	-.3750	-.3280	-.1360	-.2550	-.3650	.0580	.9270	.3650
135.000	1.2520	.6230	.4270	-.5270	-.1740	.0850							.1990	.7640	.3120
180.000	1.2520	.5950	.4770	-.5000	-.0250	.1970	.1230	-.0430	-.0290	.2180	-.0100	-.4010	.1330	.6440	.3280
225.000	1.2520	.6060	.5310	-.4810	-.2760	.1930	.1340						.0010	.1340	-.0990
270.000	1.2520	.3860	.3550	-.4730	-.7880	-.4780	-.5880	-.1900			-.1800	-.3080	-.1090	-.1140	-.0230
315.000	1.2520	.2360	-.0350	-.7780	-.8030	-.3620	-.0730						-.0490	-.0360	.0410

X/LS	.9870
PHI	
.000	-.1040
45.000	-.0890
90.000	-.0110
135.000	.2990
180.000	.3740
225.000	.1840
270.000	.0410
315.000	.0030

MACH (1) = 1.097 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2310	.2250	.0670	-.6880	-.8010	-.2180	-.1240	-.1730	-.2090	-.1600	-.1070	-.2980	.0690	.0990	.0900
45.000	1.2310	.2170	.0990	-.6710	-.5430	-.3480							-.0880	.1290	.1190
90.000	1.2310	.3410	.0990	-.6420	-.4090	-.2240	-.3490	-.3030	-.3390	-.1520	-.3090	-.3890	.0210	.4750	.3420
135.000	1.2310	.5800	.3640	-.5880	-.1880	-.0130							.1480	.8870	.4580
180.000	1.2310	.6980	.4710	-.4890	.0120	.1460	.0470	-.1010	-.1090	.1490	-.0920	-.3840	.1730	.9780	.3110
225.000	1.2310	.6270	.5940	-.4230	-.2280	.1870	.0720						.0690	.1780	-.0880
270.000	1.2310	.3580	.3190	-.4950	-.7710	-.4940	-.2290	-.1940			-.0920	-.2980	-.1110	-.0760	.0220
315.000	1.2310	.2020	-.1060	-.8080	-.7470	-.3290	-.1760						.0990	.0840	.1120

X/LS	.9870

DATE 24 SEP 93 TABULATED PRESSURE DATA - 1A9A

AMES 11-70T 1A9 ORA + 93 + T9 SRM BOOSTER (RBM939)

MACH (1) = 1.097 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
.000	.0350
45.000	.0020
90.000	.0380
135.000	.2080
180.000	.3140
225.000	.1770
270.000	.0830
315.000	.1080

MACH (1) = 1.098 BETAT (3) = .080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0541	.0987	.1138	.1422	.1991	.2844	.3997	.4835	.5975	.7115	.8248	.9417	.9746	.9908
PHI															
.000	1.2090	.1970	.0770	-.0890	-.3910	-.2280	-.0920	-.1530	-.1300	-.0250	-.1050	-.3970	.1900	.1220	.1270
45.000	1.2090	.2110	.0910	-.0790	-.3550	-.3250							.0420	.0860	.1480
90.000	1.2090	.2750	.0980	-.0750	-.4440	-.2860	-.4100	-.3510	-.3480	-.1740	-.2490	-.2870	.0320	.3480	.3080
135.000	1.2090	.4990	.2930	-.0000	-.1780	-.1090							.1240	.9930	.5890
180.000	1.2090	.7020	.4680	-.4660	-.0050	.1000	-.0240	-.2020	-.1970	.0700	-.1980	-.3950	.1900	.4980	.2860
225.000	1.2090	.6570	.5780	-.3820	-.0810	.1520	.0720						.0720	-.0550	-.1110
270.000	1.2090	.3480	.2660	-.5110	-.7000	-.5140	-.0520	-.1270			-.0740	-.2430	-.1870	-.1240	-.0550
315.000	1.2090	.1660	-.1270	-.8100	-.7900	-.5490	-.1400						.1520	.1170	.1590

X/LS .9870

PHI	
.000	.0920
45.000	.0680
90.000	.0880
135.000	.1920
180.000	.2650
225.000	.1570
270.000	.0420
315.000	.2760

MACH (3) = 1.104 BETAT (4) = 4.100

SECTION (3)SAH BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1870	.1280	.0810	-.0780	-.5710	-.1440	-.0780	-.0780	-.1140	.0090	-.0390	-.2740	.4340	.4580	.3880
45.000	1.1870	.1180	.0930	-.0790	-.5620	-.2980							.1490	.2020	.1970
90.000	1.1870	.2050	.0920	-.0940	-.4950	-.3940	-.3070	-.3390	-.2550	-.0490	-.1480	-.0890	.0560	.1500	.2340
135.000	1.1870	.4130	.2150	-.0340	-.2400	-.2450							.1130	.5090	.5030
180.000	1.1870	.6770	.4750	-.0360	-.0110	.0660	-.0990	-.3120	-.2240	.0230	-.2550	-.5930	.2850	.4320	.2130
225.000	1.1870	.6640	.5490	-.3020	.1090	.1840	.0370						.0830	-.0450	-.1120
270.000	1.1870	.1910	.2850	-.5030	-.5090	-.5190	-.1480	-.1480			-.0990	-.2440	-.1390	-.1270	-.0150
315.000	1.1870	.0530	-.0900	-.7980	-.7500	-.5530	-.1930						.1240	.1840	.2050

X/LS	.9870
PHI	
.000	.2690
45.000	.3170
90.000	.1300
135.000	.1790
180.000	.2150
225.000	.1280
270.000	-.0720
315.000	.2040

MACH (3) = 1.099 BETAT (5) = 8.310

SECTION (3)SAH BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1340	.0870	.0820	-.0830	-.5790	-.1290	-.1180	-.0470	-.1290	.0200	-.0250	-.3290	.4360	.3330	.4390
45.000	1.1340	.1250	.0860	-.0790	-.5820	-.2340							.3980	.4080	.2490
90.000	1.1340	.1490	.0810	-.7230	-.4930	-.4690	-.2570	-.5410	-.5090	-.0020	-.1460	-.2580	.1050	.2180	.1920
135.000	1.1340	.3380	.1180	-.6890	-.3990	-.5120							.0150	.2470	.2050
180.000	1.1340	.6900	.4490	-.4510	-.0660	-.2990	-.1640	-.4120	-.1140	-.0090	-.2360	-.5040	.3260	.1420	.0840
225.000	1.1340	.6590	.5060	-.2570	.1340	-.1870	.0300						.0380	-.2130	-.1920
270.000	1.1340	.1910	.2270	-.5110	-.5220	-.6770	-.4450	-.1930			-.0960	-.2990	-.1420	-.1750	-.0850
315.000	1.1340	-.0180	-.0540	-.7990	-.7440	-.5680	-.1190						.1280	.1860	.1970

X/LS	.9870
PHI	
.000	.3770
45.000	.3390
90.000	.1820
135.000	.1130
180.000	.1380

AMES 11-7D7 IA9 CRA + 93 + 79 SRM BOOSTER (RUN#39)

MACH (1) = 1.799 BETAT (1) = 0.310

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI
229.000 .0790
270.000 -.1070
315.000 .2680

MACH (2) = 1.251 BETAT (1) = -0.120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1136	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3520	.2590	.1490	-.4090	-.4290	-.4290	-.2820	-.2830	-.4840	-.2170	-.0730	-.2420	.0890	.0470	.0380
45.000	1.3520	.2410	.1950	-.4870	-.5010	-.5030							-.0320	.0880	.1180
90.000	1.3520	.5840	.3180	-.4120	-.2490	-.1280	-.1820	-.2580	-.3940	-.1970	-.2450	-.3030	-.0010	.3370	.4150
135.000	1.3520	.5840	.5080	-.3370	-.1290	.0580							.0490	.3200	.6030
180.000	1.3520	.6490	.5390	-.3380	-.0580	.1930	.1920	.0970	-.0680	-.0490	.0810	-.3290	-.0100	.2730	.5310
225.000	1.3520	.5890	.6030	-.3080	-.2190	.2230	.1820						-.0230	.0780	.0690
270.000	1.3520	.4080	.4960	-.2820	-.6180	-.3340	-.3340	-.0690			-.1680	-.2720	-.1990	-.1330	.0790
315.000	1.3520	.2830	.0820	-.5950	-.6810	-.5920	-.1130						-.0310	-.0280	.0170

X/LS .9870

PHI
.000 .0540
45.000 .0100
90.000 .0540
135.000 .2740
180.000 .4400
225.000 .2880
270.000 .0590
315.000 .0440

MACH (2) = 1.249 BETAT (2) = -0.050

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1136	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3280	.1710	.1220	-.4850	-.4410	-.3550	-.1850	-.1980	-.2850	-.3200	-.0000	-.2000	.0380	.0340	.0180
45.000	1.3280	.1190	.1710	-.4740	-.4040	-.3010							-.0380	.0130	.1120
90.000	1.3280	.2000	.2020	-.4420	-.3080	-.1940	-.2280	-.3540	-.4420	-.2350	-.2480	-.2910	-.0240	.1520	.3440
135.000	1.3280	.4490	.4390	-.3790	-.1660	-.0360							.0320	.2840	.5870
180.000	1.3280	.6140	.5430	-.3310	-.0080	.0740	.1790	-.0120	-.1620	-.1100	-.0190	-.3320	.0480	.2990	.6750
225.000	1.3280	.5720	.6290	-.2790	-.1840	.0960	.2130						.0480	.1870	-.0120

MACH (2) = 1.249 BETAT (2) = -4.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3280	.3470	.4740	-.2810	-.6010	-.3950	-.3290	-.1070			-.0640	-.2380	-.0760	-.1870	-.0140
315.000	1.3280	.1870	-.0310	-.6210	-.6040	-.5000	-.1790						.0390	.0890	.0480

X/LS	.9879
PHI	
.000	.1895
45.000	.0540
90.000	.0840
135.000	.2830
180.000	.3480
225.000	.2810
270.000	.0820
315.000	.2150

MACH (2) = 1.248 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2940	.1190	.0980	-.5000	-.4470	-.3730	-.0840	-.1110	-.1270	-.0590	-.0290	-.2900	.1180	.0820	.0980
45.000	1.2940	.0800	.1380	-.4870	-.4270	-.3030							.0090	.0420	.0980
90.000	1.2940	.1720	.2040	-.4730	-.3670	-.2720	-.3010	-.4370	-.5300	-.2100	-.2280	-.2920	-.0080	.0730	.3220
135.000	1.2940	.4210	.3840	-.4190	-.2540	-.1480							.0140	.1910	.4880
180.000	1.2940	.6130	.5300	-.3390	.0320	-.0190	.1040	-.1180	-.2480	-.1080	-.0920	-.2970	-.0020	.5890	.5430
225.000	1.2940	.5970	.8430	-.2610	-.1080	.0230	.1790						.0820	.0970	-.1190
270.000	1.2940	.3190	.4340	-.3010	-.5740	-.4330	-.3580	-.1080			-.0300	-.2440	-.1490	-.1290	-.1700
315.000	1.2940	.1270	-.0730	-.6410	-.7190	-.5310	-.0750						.0390	.1240	-.0240

X/LS	.9879
PHI	
.000	.1390
45.000	.1010
90.000	.1210
135.000	.2490
180.000	.3210
225.000	.1850
270.000	.0330
315.000	.2730

AMES 11-FOOT IA9 CEA + 53 + T9 SRM BOOSTER (RBM539)

MACH (2) = 1.246 BETAT (4) = 4.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9308
PHI															
.000	1.2620	.0280	.0890	-.5140	-.4580	-.2580	-.0590	-.0810	-.0600	-.0810	-.0310	-.2840	.2840	.4740	.5980
45.000	1.2620	.0790	.0910	-.4970	-.4270	-.2710							.1580	.1710	.2050
90.000	1.2620	.1070	.0930	-.5120	-.4140	-.3280	-.3430	-.2890	-.2790	-.1180	-.1430	-.1930	.0920	.0890	.2440
135.000	1.2620	.2750	.2700	-.4620	-.2240	-.2770							.0800	.2980	.5870
180.000	1.2620	.5240	.4390	-.3270	.0820	-.1000	.0390	-.1950	-.3470	.0080	-.1870	-.2800	.0910	.5830	.2990
225.000	1.2620	.5390	.8110	-.2290	.2300	-.0410	.1350						.1040	.0240	-.0750
270.000	1.2620	.2030	.4170	-.2960	-.5260	-.4670	-.3730	-.1410			-.0570	-.2470	-.1200	-.0930	-.0750
315.000	1.2620	-.0210	-.0810	-.8340	-.6850	-.5210	-.0910						.0820	.2140	-.0070

X/LS	.9670
PHI	
.000	.2050
45.000	.3440
90.000	.1940
135.000	.2290
180.000	.2970
225.000	.1810
270.000	.0480
315.000	.2830

MACH (2) = 1.249 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9308
PHI															
.000	1.2080	-.0580	.0310	-.5140	-.4420	-.1300	-.1150	-.0370	-.0400	-.0350	-.0160	-.3180	.2110	.6240	.4930
45.000	1.2080	.0300	.0380	-.5040	-.4220	-.2170							.2120	.5090	.3150
90.000	1.2080	.0480	.0620	-.5490	-.4420	-.3920	-.1750	-.2840	-.3090	-.0900	-.1310	-.2420	.1170	.1490	.2080
135.000	1.2080	.1410	.1950	-.4910	-.2340	-.3940							.0180	.1780	.2970
180.000	1.2080	.4170	.5320	-.2800	.0870	-.1590	-.0070	-.2560	-.4370	.0450	-.2240	-.2320	.2750	.2790	.1870
225.000	1.2080	.4970	.5850	-.1780	.2480	-.0710	.1380						.1140	-.0080	-.1900
270.000	1.2080	.1300	.3850	-.3090	-.2980	-.4825	-.3330	-.1780			-.0850	-.2870	-.1230	-.0860	-.1480
315.000	1.2080	-.1450	-.0210	-.8010	-.5600	-.4470	-.1220						.0230	.2420	-.0410

X/LS	.9875
PHI	
.000	.1990
45.000	.3925
90.000	.2550
135.000	.1710
180.000	.1690

MACH (2) = 1.265 DETAT (5) = 0.250

SECTION (115RM BOOSTER DEPENDENT VARIABLE CP

X/L3 .9870

PHI	
225.000	.0489
270.000	-.0199
315.000	.2740

AMES 11-FOOT IA9 CEA + 53 + 74 SRM BOOSTER (RBMS40) (27 APR 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9308
PHI															
.000	1.3090	.3410	.1750	-.6640	-.5300	-.3520	.0110	-.0560	-.1130	-.0040	-.0220	-.2830	-.0080	.0080	.0490
45.000	1.3090	.3800	.2340	-.6270	-.4470	-.2560							.0660	.3190	.2250
90.000	1.3090	.4970	.3120	-.5870	-.3270	-.0660	-.0990	-.0810	-.1750	.0480	-.0850	-.2830	.1850	.5890	.4290
135.000	1.3090	.5680	.3890	-.5670	-.2740	.1120							.2270	.7210	.4920
180.000	1.3090	.5720	.3890	-.5700	-.2470	.2010	.1180	-.0180	-.0630	.2420	.0850	-.4280	.1490	.8100	.3450
225.000	1.3090	.5490	.4520	-.5550	-.4720	.2520	.1040						.0140	.7750	.0580
270.000	1.3090	.4720	.5040	-.4290	-.8550	-.4210	-.2580	-.2480			-.0420	-.2830	-.0320	.5990	.0850
315.000	1.3090	.3720	.1280	-.7130	-.7710	-.2990	.0400						.0580	.0540	.1280

X/LS .9670

PHI	
.000	.1900
45.000	.0410
90.000	.1280
135.000	.2830
180.000	.3500
225.000	.1340
270.000	.1480
315.000	.0680

MACH (1) = 1.101 BETAT (2) = -4.080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9308
PHI															
.000	1.2940	.3180	.1770	-.6430	-.5280	-.2800	.0530	-.0470	-.0990	-.0360	-.0480	-.2580	.0450	.1430	.1820
45.000	1.2940	.3580	.2210	-.6300	-.4750	-.2470							.1200	.5160	.2030
90.000	1.2940	.4200	.2710	-.6110	-.3400	-.1470	-.0690	-.1340	-.2990	.0080	-.1180	-.2710	.1910	.4870	.4110
135.000	1.2940	.5140	.3540	-.5890	-.1920	-.0390							.2340	.6510	.4580
180.000	1.2940	.5710	.3930	-.5970	-.1870	.0420	.0290	-.0350	-.1550	.1790	.0220	-.3140	.2480	.7420	.3270
225.000	1.2940	.5360	.4610	-.5260	-.4120	-.0690	.0740						.1250	.7350	.1140
270.000	1.2940	.4820	.4890	-.4310	-.8360	-.4690	-.2120	.2280			-.0480	-.2780	-.0310	-.5210	.1140
315.000	1.2940	.3620	.1250	-.7100	-.7390	-.2990	.0330						.0540	.0	.1240

X/LS .9670

AMES 11-777 IA9 CBA + 55 + 79 SRM BOOSTER

MACH = 1.11 BETAT (2) = -6.00

SECTION : 115RM BOOSTER DEPENDENT VARIABLE CP

X/LS .9877

PHI
.000 .1261
45.000 .1449
90.000 .1387
135.000 .2790
180.000 .3180
225.000 .2137
270.000 .1780
315.000 .1294

MACH = 1.17 BETAT (3) = .00

SECTION : 115RM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1130	.1422	.1991	.2844	.3997	.4811	.5975	.7111	.8249	.8817	.9144	9300
PHI															
.000	1.2780	.2830	.1820	-.6510	-.5220	.2210	.3260	-.0190	-.1770	-.2180	-.0440	-.1480	.1350	.1090	.2170
45.000	1.2780	.2890	.2540	-.6330	-.4080	-.2150							.1490	.2990	.3180
90.000	1.2780	.3320	.2170	-.6320	-.4830	-.1890	-.0630	-.1520	-.1590	-.0920	-.1140	-.2490	.1880	.4120	.5090
135.000	1.2780	.4380	.3180	-.6200	-.3190	-.1550							.1950	.5330	.8120
180.000	1.2780	.5340	.3960	-.5880	-.1410	-.1130	.0310	-.1260	-.2280	.1150	-.1190	-.3480	.2150	.6780	.9660
225.000	1.2780	.5280	.4690	-.4890	-.3330	-.1150	.0560						.1780	.6440	-.7260
270.000	1.2780	.3990	.4720	-.4330	-.0150	-.0870	-.2610	-.1490			-.0890	-.2280	-.0990	.0180	1.1
315.000	1.2780	.2840	.1120	-.7530	-.7620	-.2530	-.5240						.1160	.1330	1180

X/LS .9877

PHI
.000 .1800
45.000 .1800
90.000 .2150
135.000 .2570
180.000 .2780
225.000 .1660
270.000 .0960
315.000 .1490

AMES 11-FT 3AB CRA + 33 + 79 SRM BOOSTER (R@M640)

MACH (1) = 1.099 BETAT (4) = 0.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0341	.0987	.1136	.1422	.1991	.2844	.3697	.4833	.5973	.7113	.8248	.8817	.9384	.9380
R=1															
.000	1.2490	.1925	.1880	-.0310	-.4980	-.1540	-.0280	-.0170	-.0810	.0140	-.0180	-.1980	.1880	.4380	.3840
45.000	1.2490	.2310	.1870	-.0420	-.4990	-.1890							.2860	.5210	.4310
90.000	1.2490	.2680	.1870	-.0490	-.4990	-.2190	-.0590	-.1780	-.2120	.0260	-.0800	-.1060	.1590	.2420	.3080
135.000	1.2490	.3510	.2590	-.0260	-.5490	-.2840							.1270	.3980	.3490
180.000	1.2490	.4770	.3990	-.0340	-.0990	-.2990	-.0280	-.2170	-.2980	.0540	-.1380	-.2990	.2470	.4480	.2450
225.000	1.2490	.4870	.4990	-.0490	-.0220	-.2010	-.2890						.1580	.2810	-.0180
270.000	1.2490	.2870	.4370	-.4220	-.7550	-.4690	-.5030	-.2150			-.0850	-.2270	-.0910	.0010	-.0010
315.000	1.2490	.1920	.1870	-.0810	-.7190	-.1840	-.0920						.1580	.1780	.1990

X/L3 .9875

R=1	
.000	.2890
45.000	.2890
90.000	.2890
135.000	.2890
180.000	.2890
225.000	.2890
270.000	.2890
315.000	.2890

MACH (1) = 1.100 BETAT (5) = 0.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0341	.0987	.1136	.1422	.1991	.2844	.3697	.4833	.5973	.7113	.8248	.8817	.9384	.9380
R=1															
.000	1.2540	.0880	.1890	-.0490	-.5180	-.0970	-.0690	-.0290	-.0790	.0180	.0000	-.1880	.3910	.5280	.4980
45.000	1.2540	.1410	.1890	-.0320	-.5180	-.0860							.5220	.4290	.3990
90.000	1.2540	.1720	.1880	-.0490	-.5070	-.2490	-.0690	-.1720	-.2590	.0810	-.0290	-.2150	.2690	.3490	.2990
135.000	1.2540	.2990	.1890	-.0310	-.5010	-.3920							.1280	.2490	.2340
180.000	1.2540	.3990	.3190	-.0190	-.0180	-.2930	-.0840	-.2910	-.2590	.0610	-.1270	-.2870	.3490	.3220	.1910
225.000	1.2540	.4140	.4870	-.4080	-.7410	-.2410	-.3990						.1540	-.1190	-.1270
270.000	1.2540	.1930	.4540	-.4220	-.6090	-.8720	-.4590	-.2390			-.0690	-.2810	-.0190	-.0210	-.0210
315.000	1.2540	.1890	.1920	-.0360	-.5940	-.1630	-.1490						.1490	.1780	.1890

X/L3 .9875

R=1	
.000	.2890
45.000	.2890
90.000	.2890
135.000	.2890
180.000	.2890

MACH = 1.1[illegible] BETAT (1) = 8.290

SECTION : 1:SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .9877

PHI
359.[illegible] .[illegible]
37[illegible] -.[illegible]
31[illegible] .[illegible]

MACH = 1.244 BETAT (1) = -8.190

SECTION : 1:SRM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.[illegible]	.3[illegible]	.2480	-.4620	-.3840	-.3750	-.0820	-.0220	-.0950	-.0800	.0100	-.2090	.0190	.0750	.1430
43.000	1.[illegible]	.3[illegible]	.3140	-.4290	-.3170	-.[illegible]							.0990	.2670	.2320
90.000	1.3[illegible]	.4241	.4790	-.3990	-.2270	-.1[illegible]	.0850	-.1180	-.1160	-.0900	-.0480	-.1790	.1450	.4840	.4410
135.000	1.3[illegible]	.[illegible]	.[illegible]	-.3[illegible]	-.2[illegible]	-.[illegible]							.1580	.5790	.557[illegible]
180.000	1.3[illegible]	.[illegible]	.4453	-.3[illegible]	-.2[illegible]	.0280	.2130	.0580	-.0670	.0260	.1400	-.2870	.0340	.4060	.4550
225.000	1.3[illegible]	.[illegible]	.4980	-.3[illegible]	-.[illegible]	.[illegible]	.1930						.0290	.1900	.1490
270.000	1.3[illegible]	.[illegible]	.6190	-.2380	-.6[illegible]	-.2990	-.3480	-.0490			-.1450	-.2330	-.0340	-.[illegible]	.0910
315.000	1.3[illegible]	.[illegible]	.2130	-.5[illegible]	-.5[illegible]	-.3[illegible]	.0[illegible]						.[illegible]	.[illegible]	.0980

X/L3 .9877

PHI
.000 .1[illegible]
45.000 .0[illegible]
90.000 .1[illegible]
135.000 .3[illegible]
180.000 .4[illegible]
225.000 .2[illegible]
270.000 .1[illegible]
315.000 .1[illegible]

MACH = 1.245 BETAT (1) = -4.060

SECTION : 1:SRM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3[illegible]	.2040	.2320	-.4530	-.3810	-.3820	-.0270	-.0250	-.0950	-.0890	.0090	-.1870	.0430	.1080	.1170
45.000	1.3[illegible]	.1510	.2810	-.4340	-.3420	-.2920							.1180	.2310	.2560
90.000	1.3[illegible]	.2720	.3390	-.4130	-.2790	-.1230	-.1310	-.0840	-.1600	-.1270	-.0550	-.1810	.1430	.3920	.4781
135.000	1.3[illegible]	.3820	.4220	-.3930	-.2230	-.0410							.1930	.4130	.5197
180.000	1.3[illegible]	.4690	.4550	-.3[illegible]	-.1740	-.0030	.1537	.0140	-.1300	-.0620	.0800	-.2920	.2040	.5450	.5152
225.000	1.3[illegible]	.5020	.5290	-.3530	-.[illegible]	.0110	.1440						.[illegible]	.[illegible]	.5410

AMES 11-7DT IA9 CEA + S3 + T9 SRM BOOSTER (REM340)

MACH (2) = 1.245 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3810	.4490	.8070	-.2370	-.6450	-.4200	-.0830	-.1480			-.0270	-.2020	-.0330	-.0830	.0470
315.000	1.3810	.3260	.1890	-.5210	-.6070	-.3630	-.0160						.1070	.0880	.0840

X/LS .9670

PHI	
.000	.1040
45.000	.1290
90.000	.1900
135.000	.3030
180.000	.3870
225.000	.2480
270.000	.1550
315.000	.1170

MACH (2) = 1.248 BETAT (3) = .010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3340	.1340	.2140	-.4380	-.3800	-.3660	-.0030	-.0260	-.0700	-.0870	.0080	-.2090	.0640	.1490	.1980
45.000	1.3340	.0630	.2480	-.4370	-.3530	-.2250							.1110	.2350	.2730
90.000	1.3340	.1690	.2410	-.4320	-.3160	-.1640	-.1610	-.0720	-.1920	-.0960	-.0570	-.1650	.1320	.3120	.3740
135.000	1.3340	.3100	.3700	-.4080	-.2320	-.1030							.1070	.3260	.4710
180.000	1.3340	.4690	.4570	-.3700	-.1470	-.0480	.1330	-.0670	-.1940	-.0080	-.0290	-.2290	.0860	.2980	.4710
225.000	1.3340	.3100	.3540	-.3300	-.2670	-.0120	.2060						.0360	.1220	-.0570
270.000	1.3340	.4150	.3900	-.2410	-.6230	-.4360	-.1760	-.1930			-.0300	-.2080	-.0800	-.0680	-.0570
315.000	1.3340	.2800	.1650	-.5230	-.6040	-.3220	-.0450						.0970	.0840	.0680

X/LS .9670

PHI	
.000	.1640
45.000	.1990
90.000	.2550
135.000	.2970
180.000	.3410
225.000	.2050
270.000	.1290
315.000	.2140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3050	.1400	.1930	-.4610	-.3900	-.3260	-.0240	-.0430	-.0360	-.0550	-.0010	-.1600	.2420	.4240	.4160
45.000	1.3050	.0920	.2070	-.4430	-.3590	-.2040							.3590	.2950	.2940
90.000	1.3050	.1210	.2070	-.4500	-.3590	-.1760	-.1040	-.0850	-.1740	-.0370	-.0580	-.1250	.1340	.2500	.2960
135.000	1.3050	.2650	.2920	-.4350	-.2920	-.1740							.1510	.2800	.4020
180.000	1.3050	.4340	.4290	-.3800	-.1130	-.0950	.0720	-.1270	-.2500	.0310	-.0810	-.1970	.1270	.4020	.3830
225.000	1.3050	.4940	.5540	-.3180	-.2110	-.0230	.1890						.1080	.1350	-.0410
270.000	1.3050	.3420	.5760	-.2410	-.6100	-.4420	-.1260	-.3210			-.0490	-.2120	-.0630	.0020	-.0350
315.000	1.3050	.1980	.1650	-.5180	-.5870	-.2300	-.0660						.0890	.1920	.0770

X/LS	.9870
PHI	
.000	.2420
45.000	.3700
90.000	.2660
135.000	.2490
180.000	.2990
225.000	.1080
270.000	.0770
315.000	.2750

MACH (2) = 1.250 BETAT (5) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2670	.0580	.1510	-.4770	-.3890	-.1510	-.0730	-.0290	-.0100	-.0480	-.0010	-.2410	.2300	.4880	.3070
45.000	1.2670	.0970	.1430	-.4610	-.3760	-.1530							.3230	.5110	.4070
90.000	1.2670	.1180	.1450	-.4770	-.3880	-.1950	-.0520	-.1050	-.1660	-.0130	-.0250	-.1520	.1760	.2420	.2800
135.000	1.2670	.1680	.2130	-.4770	-.3160	-.2910							.0580	.1420	.3100
180.000	1.2670	.3300	.4120	-.3630	.0010	-.1600	-.0190	-.1700	-.3090	.0350	-.1230	-.2320	.1360	.3820	.1950
225.000	1.2670	.4110	.4770	-.3420	.1700	-.1200	.0580						.1370	.0020	-.1100
270.000	1.2670	.2230	.5590	-.2490	-.4700	-.4880	-.1380	-.3070			-.0630	-.2420	-.0720	-.0320	-.1120
315.000	1.2670	.0620	.1920	-.4920	-.5450	-.1580	-.0840						.0050	.2080	-.0110

X/LS	.5370
PHI	
.000	.2350
45.000	.4120
90.000	.3360
135.000	.2410
180.000	.2270

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 1A9 CBA + S3 + T9 SRM BOOSTER (RBNS4D)

MACH (2) = 3.250 BETAT (5) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0730
270.000	.0020
315.000	.2740

SREF = 2.4210 Sq.FT. XMRP = 28.3300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHAT = .000 ORBINC = .300
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3220	.4230	.2580	-.6300	-.4680	-.3280	.0690	.0010	-.0470	.0260	.0320	-.3430	.0900	.2570	.1820
45.000	1.3220	.4650	.3030	-.5910	-.3820	-.1980							.2130	.4320	.3400
90.000	1.3220	.5120	.3150	-.5730	-.3170	-.1180	.1170	.0500	-.0780	.1280	.0870	-.1620	.3130	.5770	.4530
135.000	1.3220	.4930	.3430	-.5890	-.3430	-.0600							.2950	.6370	.4550
180.000	1.3220	.4610	.3020	-.6050	-.3840	.1070	.1410	.0100	-.0900	.2710	.1890	-.3990	.1910	.5440	.3260
225.000	1.3220	.4710	.3310	-.6150	-.6010	.1320	.1310						.0540	.1530	.0420
270.000	1.3220	.4920	.3690	-.3980	-.8510	-.1890	-.1110	-.2450			-.0170	-.2140	.0310	.0750	.1500
315.000	1.3220	.4480	.2720	-.6430	-.6710	-.1820	.0610						.0240	.0470	.1980

X/LS	.9670
PHI	
.000	.1510
45.000	.1440
90.000	.2390
135.000	.3260
180.000	.3280
225.000	.1770
270.000	.1730
315.000	.1510

MACH (1) = 1.098 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3120	.3870	.2650	-.6200	-.4510	-.2980	.0610	.0190	-.0290	-.0100	.0090	-.2070	.2010	.3320	.2910
45.000	1.3120	.4000	.2910	-.5980	-.4190	-.1990							.3030	.4630	.3810
90.000	1.3120	.4390	.2910	-.5920	-.3780	-.1240	.1180	.0230	-.0920	.0840	.0470	-.1740	.3190	.5250	.4380
135.000	1.3120	.4440	.3240	-.5940	-.3690	-.0960							.2770	.5480	.4380
180.000	1.3120	.4530	.3180	-.5890	-.3490	-.0430	.1290	-.0170	-.1270	.2090	.0900	-.2990	.2370	.4080	.3190
225.000	1.3120	.4750	.3800	-.5930	-.3540	-.0190	.1180						.1360	.1800	.0220
270.000	1.3120	.4770	.3820	-.3920	-.8360	-.2050	-.0720	-.1890			-.0660	-.1680	.0280	.0950	.1640
315.000	1.3120	.4290	.2750	-.6360	-.6580	-.1700	.0410						.0390	.0390	.2090

X/LS	.9870

MACH (1) = 1.090 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
.000	.1930
45.000	.2320
90.000	.2760
135.000	.3080
180.000	.3090
225.000	.1840
270.000	.1970
315.000	.2110

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2900	.3870	.2640	-.6230	-.4490	-.2040	.0320	.0210	-.0320	-.0270	-.0020	-.1230	.2350	.3640	.3680
													.2980	.4190	.3930
45.000	1.2900	.3490	.2870	-.6060	-.4400	-.1800							.3200	.4950	.3970
90.000	1.2900	.3720	.2680	-.6120	-.4160	-.1120	.0790	-.0410	-.1290	.0470	.0070	-.1350	.3010	.4847	.3860
135.000	1.2900	.4140	.2860	-.6100	-.3920	-.1220							.2550	.4390	.3010
180.000	1.2900	.4500	.3190	-.5920	-.3250	-.1160	.0840	-.0890	-.2050	.1310	-.0450	-.2800	.1580	.1580	.0130
225.000	1.2900	.4690	.3770	-.5790	-.5170	-.0810	.0820						.0250	.0840	.1280
270.000	1.2900	.4580	.5580	-.3920	-.6220	-.1590	-.0760	-.1550			-.0830	-.1700	.0890	.1300	.1590
315.000	1.2900	.4030	.2800	-.6350	-.6390	-.1200	.0020								

X/LS .9870

PHI	
.000	.2150
45.000	.2880
90.000	.2880
135.000	.2780
180.000	.2810
225.000	.1810
270.000	.1350
315.000	.2440

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-7DT IA9 O2A + S3 + T9 SRM BOOSTER (RBMS41)

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2700	.3130	.2600	-.6190	-.4080	-.1600	-.0470	.0120	-.0720	-.0080	.0100	-.0760	.2710	.4270	.4570
45.000	1.2700	.3490	.2590	-.6170	-.4580	-.1790							.3310	.4270	.3700
90.000	1.2700	.3170	.2370	-.6170	-.4580	-.1200	.0430	-.0660	-.1660	.0720	.0150	-.1450	.2710	.3580	.3070
135.000	1.2700	.3390	.2610	-.6220	-.4060	-.1740							.2680	.3710	.3010
180.000	1.2700	.3890	.3210	-.5810	-.2880	-.1760	.0340	-.1600	-.2560	.0770	-.0460	-.2380	.2810	.3900	.2280
225.000	1.2700	.4210	.4100	-.5400	-.4540	-.1230	.0440						.1920	.1390	.0090
270.000	1.2700	.3810	.5860	-.3750	-.8110	-.1680	-.1160	-.1550			-.0470	-.1790	.0480	.1030	.1590
315.000	1.2700	.3460	.3130	-.6000	-.6000	-.1050	-.0760						.1520	.2680	.2490

X/LS	.9670
PHI	
.000	.3100
45.000	.3440
90.000	.2630
135.000	.2030
180.000	.1840
225.000	.1150
270.000	.1280
315.000	.3010

MACH (1) = 1.100 BETAT (5) = 5.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2310	.2290	.2330	-.6150	-.4050	-.1840	-.1060	-.0080	-.0590	-.0230	.0090	-.0940	.4710	.57	[illegible]
45.000	1.2310	.2150	.2210	-.6350	-.4710	-.1070							.3380	.40	[illegible]
90.000	1.2310	.2260	.1980	-.6420	-.4820	-.1070	.0080	-.0900	-.1710	.0840	.0460	-.1790	.4380	[illegible]	.2810
135.000	1.2310	.2490	.2120	-.6410	-.4320	-.2530							.2440	.3050	.2150
180.000	1.2310	.3120	.3280	-.5740	-.2440	-.2760	.0010	-.2160	-.0470	.0900	-.0620	-.2220	.2460	.2660	.0840
225.000	1.2310	.3620	.4080	-.5480	-.2880	-.2280	-.0080						.1550	-.0880	-.1070
270.000	1.2310	.3080	.5890	-.3710	-.7650	-.1830	-.1180	-.1480			-.0510	-.2250	[illegible]	.0220	-.0130
315.000	1.2310	.2770	.3480	-.5760	-.5270	-.1020	-.0900						.2660	.2720	.0540

X/LS	.9670
PHI	
.000	.2800
45.000	.3980
90.000	.2590
135.000	.1780
180.000	.1340

MACH (1) = 1.100 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0350
270.000	.0000
315.000	.2950

MACH (2) = 1.247 BETAT (1) = -8.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3910	.3880	.3430	-.4280	-.3200	-.3140	-.0100	.0490	-.0180	-.0370	.0500	-.2250	.0630	.1990	.1290
45.000	1.3910	.3890	.3940	-.3950	-.2630	-.1630							.1540	.3500	.3220
90.000	1.3910	.4270	.3930	-.3810	-.2180	-.1200	-.0190	.0940	-.0200	-.0190	.0910	-.0610	.2480	.4810	.4480
135.000	1.3910	.4070	.4030	-.4000	-.2560	-.1050							.1770	.5380	.4880
180.000	1.3910	.4040	.3900	-.4210	-.3230	-.1520	.0920	.0640	-.0340	.2050	.2040	-.2420	.0300	.4740	.4880
225.000	1.3910	.4510	.3730	-.4410	-.4880	.0330	.0950						.0450	.1940	.0990
270.000	1.3910	.4860	.6550	-.2130	-.6550	-.1840	-.1450	-.2110			-.1200	-.2040	.0240	.0030	.1030
315.000	1.3910	.4430	.3590	-.4430	-.5000	-.2590	.0320						.0420	.0330	.1530

X/LS .9670

PHI	
.000	.1330
45.000	.1190
90.000	.2570
135.000	.3690
180.000	.3850
225.000	.2780
270.000	.1900
315.000	.2040

MACH (2) = 1.251 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3730	.2800	.3270	-.4210	-.3270	-.3180	.0190	.0230	-.0250	-.0320	.0330	-.1670	.1410	.2560	.2240
45.000	1.3730	.2180	.3520	-.3990	-.2900	-.1800							.2090	.3810	.3380
90.000	1.3730	.2620	.3510	-.3930	-.2620	-.1240	-.0840	.0690	-.0490	-.0500	.0760	-.0600	.2350	.4370	.4110
135.000	1.3730	.2460	.3780	-.3990	-.2630	-.0800							.1860	.4790	.4630
180.000	1.3730	.3060	.3720	-.3980	-.2690	-.0730	.0330	.0380	-.0890	.0050	.1350	-.2670	.1150	.3910	.4630
225.000	1.3730	.4150	.4110	-.4100	-.4350	-.0320	.0450						.1050	.2310	.0480

AMES 11-707 IA9 OPA + S3 + T9 SRM BOOSTER (RBM541)

MACH (2) = 1.251 BETAT (2) = -4.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.3730	.4700	.6590	-.2040	-.6380	-.1900	-.0740	-.1610			-.1320	-.1870	.0420	-.0310	.0460
315.000	1.3730	.4160	.3490	-.4400	-.4990	-.2570	.0400						.0430	.0270	.1450

X/LS	.9670
PHI	
.000	.1330
45.000	.2640
90.000	.2940
135.000	.3380
180.000	.3670
225.000	.2450
270.000	.1930
315.000	.2300

MACH (2) = 1.248 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3450	.1670	.3070	-.4300	-.3380	-.3030	.0050	-.0090	-.0180	-.0410	.0320	-.1230	.1840	.2880	.3540
45.000	1.3450	.1360	.3130	-.4180	-.3160	-.1980							.2140	.3440	.3700
90.000	1.3450	.1870	.3140	-.4160	-.2990	-.1410	-.1040	.0350	-.0910	-.0650	.0500	-.0790	.2300	.3900	.3980
135.000	1.3450	.1670	.3480	-.4160	-.2820	-.1100							.1880	.4310	.4340
180.000	1.3450	.2050	.3770	-.4040	-.2610	-.1000	.0930	-.0120	-.1550	.1340	.0300	-.2200	.1240	.3490	.4350
225.000	1.3450	.4540	.4410	-.4040	-.4070	-.0970	.1230						.1020	.1680	.0100
270.000	1.3450	.4840	.6350	-.2090	-.6300	-.1940	.0210	-.1800			-.0680	-.1790	-.0110	.0240	.0200
315.000	1.3450	.4400	.3420	-.4450	-.4980	-.2050	.0200						.0520	.1040	.1230

X/LS	.9670
PHI	
.000	.1880
45.000	.3180
90.000	.3440
135.000	.3440
180.000	.3340
225.000	.2080
270.000	.1410
315.000	.2390

AMES 11-70T IA9 OEA + S3 + T9 SRM BOOSTER (OBM341)

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3160	.2280	.2770	-.4420	-.3500	-.2620	-.0400	-.0380	-.0200	-.0970	.0130	-.0730	.2180	.3800	.4490
45.000	1.3160	.1510	.2480	-.4390	-.3500	-.1910							.3220	.4040	.3940
90.000	1.3160	.1290	.249[illegible]	-.4390	-.3320	-.1350	-.0570	.0020	-.1010	-.0260	.0640	-.0730	.1680	.2900	.3250
135.000	1.3160	.2170	.2780	-.4370	-.3130	-.1310							.1960	.3630	.3545
180.000	1.3160	.3180	.3440	-.4160	-.2520	-.1510	.0280	-.0520	-.1980	.0720	-.0320	-.2090	.1680	.3630	.3590
225.000	1.3160	.3910	.4360	-.3930	-.3780	-.0050	.0300						.1270	.2080	.0230
270.000	1.3160	.3710	.6460	-.2130	-.6310	-.1330	.0080	-.1820			-.0470	-.1780	.0210	.0850	.0225
315.000	1.3160	.3080	.3410	-.4430	-.4830	-.1180	-.0340						.1140	.2280	.1430

X/LS	.9670
PHI	
.000	.2850
45.000	.3860
90.000	.3330
135.000	.2700
180.000	.2650
225.000	.1690
270.000	.1630
315.000	.3250

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2840	.1740	.2590	-.4490	-.3140	-.1660	-.1130	-.0290	.0040	-.0580	.0140	-.0520	.3370	.6010	.5430
45.000	1.2840	.1150	.2020	-.4550	-.3800	-.1680							.2390	.3480	.3580
90.000	1.2840	.1280	.1970	-.4530	-.3480	-.1040	-.0720	.0170	-.1040	.0380	.0310	-.1000	.3480	.4010	.3290
135.000	1.2840	.1570	.2360	-.4520	-.3290	-.1730							.1480	.3070	.2880
180.000	1.2840	.2610	.3430	-.4150	-.2240	-.1470	-.0780	-.0840	-.1980	.0790	-.0350	-.1790	.1400	.2950	.2040
225.000	1.2840	.3420	.4560	-.3740	-.3080	-.0180	-.0750						.0990	.0080	-.1280
270.000	1.2840	.3090	.6310	-.2040	-.6040	-.0570	-.1450	-.1170			-.0580	-.2230	-.0430	.0080	-.1180
315.000	1.2840	.2570	.3690	-.4220	-.4330	-.0450	-.1360						.2070	.2670	.0200

X/LS	.9670
PHI	
.000	.2470
45.000	.4350
90.000	.3270
135.000	.2510
180.000	.2030

AMES 11-737 IA9 CRA + S3 + T9 SRM BOOSTER

MACH (2) = 1.248 BETAT (9) = 8.200

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0630
270.000	.0860
315.000	.2840

AMES 11-70T IA9 OEA + S3 + T9 SRM BOOSTER (RBM542) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.102 BETAT (1) = -8.190

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3090	.5320	.3470	-.5900	-.3530	-.2360	.0780	.0340	.0100	.0770	.1040	-.2280	.2800	.3930	.2910
45.000	1.3090	.5410	.3730	-.5600	-.3140	-.1550							.4050	.5550	.4410
90.000	1.3090	.4780	.3720	-.5750	-.3270	-.1680	.1300	.0880	-.0280	.1610	.2040	-.0710	.3680	.5390	.4420
135.000	1.3090	.3750	.2500	-.6250	-.4290	-.0480							.2910	.4630	.3820
180.000	1.3090	.3390	.1970	-.6450	-.5090	-.0060	.0970	.0290	-.0270	.2580	.2460	-.3630	.1960	.4180	.2580
225.000	1.3090	.3630	.1680	-.6930	-.3810	-.1240	.0660						.1030	.1580	.0680
270.000	1.3090	.4480	.5070	-.4180	-.3950	-.1530	.0750	.0340			-.1130	-.1830	.0810	.1140	.1450
315.000	1.3090	.5150	.3900	-.5740	-.5490	-.0920	.0770						.1000	.1130	.2270

X/LS	.9670
PHI	
.000	.1870
45.000	.2290
90.000	.3290
135.000	.3290
180.000	.2530
225.000	.1450
270.000	.2250
315.000	.1840

MACH (1) = 1.102 BETAT (2) = -4.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2980	.5080	.3450	-.5930	-.3490	-.2000	.0340	.0630	.0070	-.0050	.0720	-.1180	.3700	.4700	.3950
45.000	1.2980	.4870	.3480	-.5810	-.3640	-.1860							.4180	.5400	.4450
90.000	1.2980	.3980	.3360	-.6020	-.3910	-.1780	.1200	.0570	-.0710	.0630	.1500	-.0990	.3780	.4420	.3900
135.000	1.2980	.3380	.2430	-.6290	-.4530	-.0710							.2870	.4080	.3350
180.000	1.2980	.3260	.2120	-.6170	-.4940	-.0310	.1110	.0070	-.0760	.1850	.1810	-.3070	.2920	.4170	.2890
225.000	1.2980	.3970	.1860	-.6850	-.5560	-.1330	.0660						.1470	.1890	.0820
270.000	1.2980	.4410	.5160	-.4130	-.4930	-.1610	.0670	.0180			-.0930	-.1480	.0940	.1430	.1670
315.000	1.2980	.5100	.3970	-.5680	-.5320	-.0860	.0350						.1810	.1970	.2390

X/L	.9670

MACH (1) = 1.102 BETAT (2) = -4.090

SECTION : 1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.2570
45.000	.3090
90.000	.3370
135.000	.2920
180.000	.2250
225.000	.1450
270.000	.2140
315.000	.2590

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5979	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2820	.4800	.3400	-.5940	-.3150	-.1500	-.0030	.0470	-.0160	-.0530	.0530	-.0660	.4100	.5280	.4520
45.000	1.2820	.3980	.3030	-.5920	-.3920	-.1940							.3510	.4690	.4190
90.000	1.2820	.3340	.2810	-.6190	-.4300	-.1530	.0840	.0110	-.1060	.0230	.1130	-.0760	.2770	.3520	.3080
135.000	1.2820	.3270	.2340	-.6320	-.4540	-.0660							.3250	.4080	.3110
180.000	1.2820	.3290	.2230	-.6320	-.4740	-.0650	.0990	-.0410	-.1080	.1150	.1120	-.2470	.3340	.3930	.2370
225.000	1.2820	.3440	.2090	-.6720	-.6910	-.1010	.0720						.1830	.1220	.0470
270.000	1.2820	.4270	.5320	-.4030	-.7340	-.1300	.0610	-.0100			-.0480	-.1270	.0820	.1650	.1510
315.000	1.2820	.5050	.4130	-.5540	-.4990	-.0630	.0030						.2370	.2970	.2150

X/LS .9670

PHI	
.000	.3280
45.000	.3590
90.000	.3180
135.000	.2280
180.000	.2010
225.000	.1310
270.000	.1750
315.000	.3280

AMES 11-7ft IA9 ORA + S3 + T9 SRM BOOSTER (RBM342)

MACH (1) = 1.099 BETAT (4) = 4.140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2800	.4480	.3360	-.5960	-.2820	-.1680	-.0970	.0240	-.0460	-.0700	.0540	-.0910	.5880	.5320	.4780
45.000	1.2800	.3410	.2620	-.6240	-.4190	-.2340							.3310	.4870	.5890
90.000	1.2800	.2960	.2560	-.6400	-.4750	-.1460	.0380	-.0240	-.1470	.0440	.0710	-.0980	.2980	.3410	.2720
135.000	1.2800	.2820	.2120	-.6240	-.4770	-.1000							.3710	.3990	.2940
180.000	1.2800	.2850	.2240	-.6350	-.4390	-.1350	.0690	-.1030	-.1460	.0870	.0720	-.2580	.2730	.3280	.1840
225.000	1.2800	.3100	.2380	-.6580	-.6580	-.0950	.0470						.1710	.1510	.0380
270.000	1.2800	.3830	.5470	-.3930	-.8170	-.1310	.0050	-.0480			.0040	-.1680	.0740	.1080	.1730
315.000	1.2800	.4770	.4380	-.5220	-.4440	-.0670	-.0710						.3690	.2980	.1780

X/LS	.9870
PHI	
.000	.3100
45.000	.3720
90.000	.2770
135.000	.1720
180.000	.1820
225.000	.0860
270.000	.1580
315.000	.3140

MACH (1) = 1.100 BETAT (5) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2180	.3410	.3440	-.5790	-.2790	-.1710	-.1430	.0010	-.0490	-.0680	.0320	-.0820	.5080	.5690	.9180
45.000	1.2180	.2180	.2120	-.6450	-.4420	-.2560							.3570	.3940	.8980
90.000	1.2180	.1940	.1920	-.6450	-.4920	-.0910	-.0210	-.0800	-.1570	.0370	.0680	-.1490	.3470	.3330	.2140
135.000	1.2180	.1690	.1870	-.6490	-.4710	-.0830							.3480	.3340	.2080
180.000	1.2180	.1780	.2290	-.6210	-.4250	-.1890	.0190	-.1540	-.0420	.1080	.0540	-.2270	.2890	.2790	.0980
225.000	1.2180	.1860	.2840	-.6260	-.5910	-.1500	.0230						.1210	-.0240	-.0480
270.000	1.2180	.2710	.5790	-.3790	-.7800	-.1470	-.0190	-.0990			-.0230	-.2280	.0370	.0290	-.0550
315.000	1.2180	.4160	.4330	-.5110	-.3230	-.1030	-.0620						.2950	.3030	.1490

X/LS	.9870
PHI	
.000	.3320
45.000	.4000
90.000	.2980
135.000	.1130
180.000	.1130

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AMES 11-FOOT IA9 OEA + 55 + 79 SRM BOOSTER (RBM542)

MACH (1) = 1.100 BETAT (1) = 8.260

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .3670

PHI													
225.000	.2340												
270.000	-.0280												
315.000	.4110												

MACH (2) = 1.245 BETAT (1) = -8.140

SECTION (1 SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7112	.8248	.8817	.9944	.9388
PHI															
.000	1.3790	.9175	.4540	-.3990	-.2520	-.2340	.0030	.0720	.0830	.0110	.1140	-.1410	.1930	.3340	.2620
45.000	1.3790	.4930	.4540	-.3740	-.2110	-.1980							.3180	.4540	.4220
90.000	1.3790	.4180	.4540	-.3920	-.2300	-.1360	-.0420	.1130	.0920	.0170	.0210	.0320	.3610	.4660	.4140
135.000	1.3790	.3220	.3590	-.4410	-.3220	-.2330							.2720	.4150	.3810
180.000	1.3790	.2140	.2370	-.4810	-.3910	-.3430	-.0980	.0800	-.0260	.2490	.3090	-.2110	.0710	.4480	.3420
225.000	1.3790	.3560	.2720	-.5210	-.3890	-.3020	.0180						.0780	.2270	.1130
270.000	1.3790	.4430	.3080	-.2420	-.1830	-.1230	.0330	.0590			-.2140	-.1790	.0780	.0830	.1140
315.000	1.3790	.5060	.4830	-.1440	-.0930	-.0530	.0500						.2990	.1420	.2460

X/LS .9670

PHI	
.000	.1920
45.000	.2920
90.000	.3820
135.000	.3880
180.000	.3120
225.000	.2590
270.000	.2480
315.000	.2220

MACH (2) = 1.248 BETAT (2) = -8.060

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	1991	.2844	.3897	.4835	.5973	.7112	.8248	.8817	.9944	.9388
PHI															
.000	1.3695	.4380	.4210	-.3990	-.2590	-.2490	.0180	.0220	.0190	.0900	.0930	-.0910	.2830	.4530	.3910
45.000	1.3690	.3630	.4010	-.3930	-.2590	-.1960							.3130	.4490	.4340
90.000	1.3690	.2710	.4020	-.4130	-.2830	-.1770	-.0280	.0880	-.0190	-.0480	.1790	.0160	.2850	.3730	.3680
135.000	1.3690	.1610	.2790	-.4580	-.3320	-.1990							.2130	.4170	.3850
180.000	1.3690	.2220	.2390	-.4390	-.3870	-.3080	-.0990	.0820	-.0710	.1530	.2140	-.2260	.1130	.4820	.3770
225.000	1.3690	.3020	.2790	-.3080	-.4380	-.2340	.0320						.1180	.2180	.0820

DATE 24 SEP 79 TABULATED PRESSURE DATA - 1A9A

TIME 11:39:37 1A9 CR4 + 53 + T9 SRM BOOSTER (RBM542)

MACH (2) = 1.249 BETAT (2) = -6.090

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3410	.4120	.3990	-.2580	-.5000	-.2320	.0430	.0470			-.1140	-.1280	.0790	.0810	.0810
45.000	1.3410	.4780	.4870	-.3720	-.3860	-.2450	.0450						.1250	.1280	.1980

X/LS .9670

PHI	
.000	.2370
45.000	.3640
90.000	.3870
135.000	.3230
180.000	.2930
225.000	.2110
270.000	.2370
315.000	.2810

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3410	.3700	.4080	-.3980	-.2560	-.2090	-.0250	-.0170	.0100	-.0210	.0430	-.0330	.3380	.4630	.4580
45.000	1.3410	.2490	.3470	-.4070	-.2880	-.1800							.2780	.3810	.3990
90.000	1.3410	.1540	.3460	-.4230	-.3140	-.1880	-.0350	.0630	-.0470	-.0570	.1140	-.0180	.2420	.3020	.2980
135.000	1.3410	.0780	.2750	-.4350	-.3300	-.1700							.2610	.4260	.3340
180.000	1.3410	.1630	.2560	-.4430	-.3660	-.1330	-.0010	.0510	-.1030	.0991	.1020	-.1910	.1270	.4290	.2690
225.000	1.3410	.2910	.2490	-.4910	-.4990	-.1860	.0170						.1260	.1720	.0470
270.000	1.3410	.3990	.6240	-.2220	-.6080	-.2270	-.0070	.0100			-.0180	-.1410	.0510	.1010	.0470
315.000	1.3410	.4710	.4940	-.3680	-.3720	-.2130	.0090						.2110	.2500	.1890

X/LS .9670

PHI	
.000	.2790
45.000	.3950
90.000	.3970
135.000	.2480
180.000	.2630
225.000	.1750
270.000	.1860
315.000	.3140

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3070	.3850	.3720	-.4110	-.2510	-.1750	-.0780	-.0540	-.0090	-.0550	-.0100	.0060	.4330	.5440	.5080
													.2360	.3390	.3440
45.000	1.3070	.1820	.2710	-.4390	-.3340	-.2130							.3140	.3050	.2810
90.000	1.3070	.0690	.2720	-.4490	-.3500	-.1590	-.0410	.0190	-.0700	-.0540	.0920	-.0340	.2300	.3970	.3290
135.000	1.3070	.0250	.2280	-.4460	-.3330	-.1410							.1630	.3310	.2780
180.000	1.3070	.1730	.2350	-.4520	-.3490	-.1000	-.0620	.0020	-.1430	.0540	.1010	-.1690	.1130	.1540	.0450
225.000	1.3070	.2390	.2570	-.4840	-.5250	-.0540	-.0290						.0250	.0780	.0500
270.000	1.3070	.3670	.6220	-.2250	-.6150	-.1350	-.0950	-.0110			.0060	-.1430	.2700	.2890	.1430
315.000	1.3070	.4580	.4920	-.3660	-.3440	-.1360	-.0420								

X/LS	.9670
PHI	
.000	.2810
45.000	.4410
90.000	.3490
135.000	.2310
180.000	.2500
225.000	.1390
270.000	.1720
315.000	.3210

MACH (2) = 1.246 BETAT (5) = 8.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2700	.3220	.3500	-.4240	-.2170	-.1570	-.1570	-.0300	.0310	-.0250	.0060	-.0460	.4750	.5840	.5640
													.2820	.3780	.3650
45.000	1.2700	.1380	.2030	-.4650	-.3680	-.2320							.3280	.3680	.2720
90.000	1.2700	.0540	.2030	-.4640	-.3620	-.1110	-.0680	-.0120	-.0810	-.0040	.0590	-.0800	.2150	.3750	.2780
135.000	1.2700	.1030	.2050	-.4550	-.3380	-.1000							.1610	.3290	.2120
180.000	1.2700	.1420	.2460	-.4480	-.3210	-.1000	-.1650	-.0280	-.1380	.0930	.0510	-.1700	.0940	.0390	-.0620
225.000	1.2700	.2020	.2930	-.4650	-.4840	-.0010	-.1550						-.0050	.0570	-.0830
270.000	1.2700	.3150	.6300	-.2140	-.6030	-.0440	-.2700	-.0150			-.0360	-.1990	.2280	.3120	.0340
315.000	1.2700	.4300	.5060	-.3440	-.2830	-.0230	-.1130								

X/LS	.9670
PHI	
.000	.3440
45.000	.4630
90.000	.2960
135.000	.1950
180.000	.1840

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

MACH (2) = 1.200 BETAT (5) = 2.210

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0750
270.000	-.0120
315.000	.4180

SREF = [illegible] SQ.IN. XMRP = [illegible] INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

RUDDER = -5.000 ELEVON = .000

RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.160

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2630	.6390	.4190	-.5520	-.2460	-.0770	.0440	.0990	.0600	.1110	.1640	-.1300	.4590	.5000	.3830
45.000	1.2630	.5840	.4000	-.5400	-.2620	-.1320							.5610	.6120	.4880
90.000	1.2630	.4070	.2990	-.5990	-.3580	-.2340	-.0220	.0340	-.0450	.1560	.2370	-.0470	.4030	.4780	.3580
135.000	1.2630	.2510	.1380	-.6710	-.5080	-.1280							.2960	.2490	.1810
180.000	1.2630	.2450	.0890	-.6710	-.4180	-.1060	.0390	.0240	.0080	.2360	.2170	-.3030	.1840	.2590	.1340
225.000	1.2630	.2440	-.0290	-.7740	-.3810	-.2400	.0230						.2190	.1870	.0910
270.000	1.2630	.3550	.3880	-.4620	-.3920	-.2480	-.0280	.0700			.0440	-.1580	.1220	.1860	.2560
315.000	1.2630	.5590	.4690	-.5180	-.4360	.0030	.0370						.1990	.2150	.2640

X/LS	.9679
PHI	
.000	.2400
45.000	.3030
90.000	.3770
135.000	.2790
180.000	.1180
225.000	.0450
270.000	.2390
315.000	.2230

MACH (1) = 1.097 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2340	.6140	.4130	-.5580	-.2140	-.0360	-.0200	.0770	.0440	.0170	.1190	-.0450	.5090	.5890	.4800
45.000	1.2340	.5030	.3460	-.5740	-.3200	-.1810							.5200	.5780	.4490
90.000	1.2340	.3210	.2630	-.6270	-.4220	-.2910	-.0680	.0350	-.1100	.0280	.1850	-.0780	.3090	.3800	.2710
135.000	1.2340	.2220	.1290	-.6730	-.5290	-.1290							.2260	.2920	.1480
180.000	1.2340	.2290	.0860	-.6720	-.5240	-.1100	.0690	.0250	-.0510	.1520	.2010	-.2670	.3130	.3480	.1810
225.000	1.2340	.2190	-.0460	-.7790	-.4270	-.2770	.0350						.2550	.1830	.0930
270.000	1.2340	.3400	.3860	-.4650	-.4270	-.3200	-.0260	.0370			-.0140	-.1240	.1230	.1970	.2590
315.000	1.2340	.5630	.4810	-.5020	-.4140	-.0050	-.0070						.2480	.2770	.2590

X/LS	.9679

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OPA + 33 + 79 SRM BOOSTER (RBM943)

MACH (1) = 1.097 BETAT (2) = -4.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
.000	.3050
45.000	.3870
90.000	.3530
135.000	.2100
180.000	.0740
225.000	.0740
270.000	.2140
315.000	.2900

MACH (1) = 1.101 BETAT (3) = .010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0541	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2400	.5840	.4080	-.5570	-.1840	-.0350	-.0510	.0550	.0120	-.0410	.0660	-.0120	.5080	.6180	.5100
45.000	1.2400	.4090	.2850	-.6020	-.3540	-.1870							.4670	.5200	.3890
90.000	1.2400	.2410	.2020	-.6490	-.4660	-.2770	-.0350	-.0240	-.1530	-.0150	.1410	-.0750	.2900	.2840	.1950
135.000	1.2400	.1850	.1390	-.6680	-.5290	-.0870							.2690	.2350	.1370
180.000	1.2400	.1960	.1180	-.6680	-.5520	-.0940	.0850	-.0160	-.0580	.1110	.1510	-.2280	.4070	.3410	.1770
225.000	1.2400	.1820	-.0310	-.7790	-.4440	-.2630	.0470						.2440	.1520	.0630
270.000	1.2400	.3030	.3820	-.4650	-.4890	-.4300	-.0140	-.0110			-.0260	-.0930	.1290	.2110	.1790
315.000	1.2400	.5550	.5070	-.4700	-.3640	-.0060	.0020						.3380	.3620	.2360

X/LS .9870

PHI	
.000	.3710
45.000	.4090
90.000	.3050
135.000	.1410
180.000	.0570
225.000	.0590
270.000	.1440
315.000	.3370

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBNS43)

MACH (1) = 1.099 BETAT (4) = 4.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2100	.5550	.4080	-.5430	-.1570	-.1040	-.1280	.0100	-.0400	-.0700	.0290	-.0190	.5990	.6270	.5260
													.3950	.4350	.3170
45.000	1.2100	.3470	.2260	-.6330	-.3580	-.2660							.2860	.2760	.1580
90.000	1.2100	.1960	.1510	-.6710	-.3020	-.2810	-.0240	-.0490	-.1790	.0230	.0840	-.1030	.3330	.2760	.1380
135.000	1.2100	.1810	.1420	-.6700	-.5290	-.0890							.3240	.2840	.1370
180.000	1.2100	.1690	.1320	-.6690	-.5320	-.0750	.0670	-.0610	-.0690	.1130	.1050	-.2310	.2580	.1490	.0560
225.000	1.2100	.1250	.0190	-.7560	-.5750	-.1910	.0110						.1110	.1610	.1970
270.000	1.2100	.2280	.4090	-.4570	-.7710	-.5660	.0050	-.0360			.0190	-.1220	.3850	.3860	.1920
315.000	1.2100	.5360	.5330	-.4260	-.2840	-.0350	-.0140								

X/LS	.9670
PHI	
.000	.4070
45.000	.4200
90.000	.2440
135.000	.0860
180.000	.0330
225.000	.0500
270.000	.1480
315.000	.3080

MACH (1) = 1.099 BETAT (5) = 8.300

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1680	.4820	.4010	-.5250	-.1310	-.1760	-.1940	-.0390	-.0750	-.1010	-.0010	-.0080	.6270	.6210	.5370
													.3450	.3750	.2320
45.000	1.1680	.2070	.1590	-.6670	-.3980	-.3830							.2750	.2410	.1180
90.000	1.1680	.0980	.1410	-.6870	-.5220	-.2270	-.0870	-.1220	-.1560	-.0140	.0350	-.0910	.3360	.3300	.1810
135.000	1.1680	.0890	.1320	-.6670	-.5210	-.0550							.3030	.2260	.0780
180.000	1.1680	.0350	.1370	-.6570	-.5200	-.0690	.0250	-.1080	-.0420	.0820	.0400	-.2290	.1580	.0390	-.0430
225.000	1.1680	-.0260	.0640	-.7280	-.6540	-.1310	-.0310						.0900	.0270	.0330
270.000	1.1680	.1470	.3950	-.4530	-.5490	-.5300	-.1000	-.1420			-.0060	-.1650	.3820	.3340	.3120
315.000	1.1680	.5140	.5330	-.3950	-.0020	-.0810	-.0390								

X/LS	.9670
PHI	
.000	.3990
45.000	.4250
90.000	.1870
135.000	.0440
180.000	.0930

AMES 11-7ft IA9 OEA + S3 + T9 SRM BOOSTER (RBMS43)

MACH (1) = 1.099 BETAT (5) = 8.300

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.0030
270.000	-.0510
315.000	.4240

MACH (2) = 1.245 BETAT (1) = -8.110

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3490	.6540	.5100	-.3670	-.1630	-.1370	.0450	.0610	.0750	.0440	.1730	-.0630	.3420	.4840	.4000
													.4250	.5820	.5070
45.000	1.3490	.5710	.4850	-.3600	-.1750	-.0750									
90.000	1.3490	.3800	.3910	-.4140	-.2550	-.1770	-.1920	-.0330	-.0010	.0240	.2770	.0720	.3520	.4120	.3440
													.2070	.1880	.2050
135.000	1.3490	.2420	.1980	-.4640	-.3870	-.2910									
180.000	1.3490	.2570	.1320	-.4950	-.3400	-.2420	-.0740	.0440	-.0010	.2030	.2980	-.1680	.0620	.3120	.2340
													.1130	.3140	.1190
225.000	1.3490	.2680	.0090	-.5840	-.3760	-.3110	-.0200								
270.000	1.3490	.3820	.4900	-.2820	-.3910	-.2990	-.0890	.0670			-.1550	-.1590	.1120	.1500	.1170
													.1570	.1670	.2490
315.000	1.3490	.5750	.5680	-.3320	-.2980	-.1200	.0660								

X/LS .9670

PHI	
.000	.2420
45.000	.3670
90.000	.4480
135.000	.3170
180.000	.1790
225.000	.1350
270.000	.2670
315.000	.2730

MACH (2) = 1.249 BETAT (2) = -4.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3330	.5700	.5000	-.3680	-.1620	-.1420	.0160	.0090	.0380	.0170	.1110	-.0170	.3860	.5100	.4660
													.3620	.4950	.4690
45.000	1.3330	.4480	.4190	-.3890	-.2250	-.1450									
90.000	1.3330	.2410	.3230	-.4390	-.3160	-.2400	-.2010	-.0910	-.0420	-.0900	.2270	.0250	.3050	.3280	.2720
													.2700	.2640	.2230
135.000	1.3330	.0890	.1660	-.4810	-.4080	-.2670									
180.000	1.3330	.1620	.1120	-.4800	-.3650	-.2870	-.0630	.0590	-.0440	.1330	.3150	-.1870	.1430	.5000	.2600
225.000	1.3330	.1850	-.0250	-.4670	-.4210	-.3600	-.0020						.1590	.3000	.0520

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBM543)

MACH (2) = 1.249 BETAT (2) = -4.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3330	.3230	.4810	-.2820	-.4430	-.3460	-.0770	.0610			-.0820	-.1030	.1090	.1140	.0520
315.000	1.3330	.3420	.3730	-.3220	-.2860	-.1120	.0330						.1710	.1840	.2130

X/LS	.9670
PHI	
.000	.2850
45.000	.4180
90.000	.4140
135.000	.2440
180.000	.1480
225.000	.1440
270.000	.2390
315.000	.3210

MACH (2) = 1.248 BETAT (3) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3030	.5270	.4780	-.3740	-.1590	-.1080	-.0400	-.0480	.0000	-.0240	.0290	.0200	.4600	.5810	.5270
													.3080	.4510	.4300
45.000	1.3030	.3490	.3390	-.4180	-.2760	-.1900							.2670	.2830	.2470
90.000	1.3030	.1330	.2300	-.4800	-.3580	-.2630	-.1860	-.0310	-.0800	-.1000	.1450	-.0280	.3350	.2840	.2030
135.000	1.3030	.0090	.1850	-.4730	-.3930	-.2740							.1780	.5290	.2370
180.000	1.3030	.0950	.1500	-.4720	-.4220	-.2560	.0070	.0650	-.0650	.0970	.2130	-.1580	.1690	.2100	.0580
225.000	1.3030	.1210	.0240	-.5870	-.5080	-.4000	-.0390						.0810	.1380	.0570
270.000	1.3030	.2200	.4940	-.2780	-.5740	-.3940	-.0680	.0280			.0200	-.1090	.2660	.3280	.2020
315.000	1.3030	.5310	.5820	-.3140	-.2610	-.0740	.0000								

X/LS	.9670
PHI	
.000	.3250
45.000	.4820
90.000	.3890
135.000	.2190
180.000	.1480
225.000	.1490
270.000	.1700
315.000	.3240

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBM343)

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2690	.4900	.4470	-.3920	-.1280	-.0790	-.1140	-.0880	-.0200	-.0290	-.0220	.0310	.4950	.5940	.5820
													.3040	.4220	.3800
45.000	1.2690	.2530	.2530	-.4560	-.3230	-.2330							.3010	.2990	.2150
90.000	1.2690	.0400	.1890	-.4870	-.4020	-.2830	-.1020	-.0290	-.0890	-.0860	.1150	-.0330	.3040	.3830	.2340
135.000	1.2690	-.0270	.1490	-.4860	-.4020	-.1660							.2280	.3680	.2280
180.000	1.2690	.0810	.1250	-.4870	-.4280	-.1590	.0010	.0330	-.0850	.0650	.1580	-.1450	.1680	.1160	.0510
225.000	1.2690	.0630	.0240	-.3960	-.5400	-.3210	-.1060						.0370	.0980	.0260
270.000	1.2690	.2420	.4940	-.2730	-.6040	-.3850	-.1110	-.0150			.0280	-.1160	.3070	.2960	.1480
315.000	1.2690	.5290	.5820	-.3030	-.2140	-.0210	-.0230								

X/LS	.9670
PHI	
.000	.3240
45.000	.4770
90.000	.3320
135.000	.1700
180.000	.1580
225.000	.1140
270.000	.1390
315.000	.3970

MACH (2) = 1.248 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2300	.4530	.4180	-.3900	-.1080	-.0990	-.1800	-.1320	.0050	-.0550	-.0460	-.0010	.5300	.6780	.6140
													.2640	.3710	.3310
45.000	1.2300	.1630	.1660	-.4970	-.3400	-.3040							.2710	.2070	.2020
90.000	1.2300	-.0330	.1130	-.5080	-.4360	-.2450	-.1360	-.0890	-.0890	-.0560	.0340	-.0770	.2500	.3740	.2380
135.000	1.2300	.0480	.1210	-.4900	-.3920	-.1000							.2160	.3160	.1550
180.000	1.2300	.0270	.1110	-.4900	-.4360	-.0990	-.0560	-.0100	-.0860	.0680	.0650	-.1840	.1130	.0100	-.0180
225.000	1.2300	.0020	.0400	-.5680	-.5580	-.2040	-.1550						.0170	.0120	-.0440
270.000	1.2300	.2220	.4930	-.2640	-.5510	-.4370	-.2210	-.0650			.0000	-.1690	.3570	.3650	.0370
315.000	1.2300	.5270	.5840	-.2600	-.1070	.0160	-.0490								

X/LS	.9670
PHI	
.000	.4140
45.000	.5100
90.000	.2810
135.000	.1350
180.000	.1460

AMES 11-707 1A9 CBA + SS + T9 SRM BOOSTER (RBM343)

MACH (2) = 1.248 BETAT (5) = 8.250

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.0330
270.000	-.0030
315.000	.4880

AMES 11-7D7 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS44) (27 APR 79)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.9300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = -1.200
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .600 ALPHAT(1) = -8.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	.9300	-.0910	-.1240	-.8450	-.2470	-.1280	-.1060	-.1340	-.1190	-.2040	-.3050	-.0460	.1200	.1630	.0770
45.000	.9300	-.0840	-.4570	-.8000	-.2550	-.1840							.2440	.1450	.0350
90.000	.9300	-.0290	-.4190	-.6450	-.2950	-.2650	-.2390	-.2440	-.2690	-.2090	-.2780	-.0480	.3620	.2800	.1230
135.000	.9300	.1920	-.1640	-.4840	-.2320	-.2060							.4710	.3510	.2020
180.000	.9300	.4440	.0340	-.2920	-.1460	-.0720	-.0740	-.0770	-.0460	-.1530	-.2770	-.0100	.4370	.3220	.2030
225.000	.9300	.4250	.1560	-.3040	-.1120	-.0420	-.0310						.3230	.2610	.1430
270.000	.9300	.0970	-.3540	-1.4440	-1.1720	-.6900	-.2860	-.1460			-.3310	-.0910	.2420	.2730	.0810
315.000	.9300	.0560	-.6950	-1.1530	-.4240	-.3190	-.1340						.2690	.2140	.1760

X/LS	.9670
PHI	
.000	.1490
45.000	-.0320
90.000	-.0780
135.000	-.0130
180.000	.0360
225.000	.0090
270.000	-.0360
315.000	.0150

MACH (1) = .600 ALPHAT(2) = -5.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2644	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	.9970	-.0300	-.1200	-.7050	-.2220	-.1120	-.0860	-.0710	-.0840	-.1290	-.1930	-.0120	.1970	.2140	.1200
45.000	.9970	-.0130	-.4090	-.7370	-.2220	-.1420							.3140	.2140	.0870
90.000	.9970	.0470	-.3860	-.6080	-.2500	-.1830	-.1630	-.1590	-.1680	-.1810	-.2040	-.0130	.4030	.2940	.1460
135.000	.9970	.2010	-.1770	-.4870	-.2080	-.1590							.4700	.3480	.1930
180.000	.9970	.3680	-.0280	-.3130	-.1330	-.0840	-.0770	-.0620	-.0350	-.1280	-.2500	-.0170	.4150	.3040	.1940
225.000	.9970	.3950	.0740	-.3770	-.1410	-.0680	-.0540						.2990	.2170	.0840
270.000	.9970	.1430	-.2100	-1.2500	-.8590	-.5690	-.2970	-.1740			-.3030	-.0940	.1930	.1970	.0880
315.000	.9970	.1430	-.3760	-1.1110	-.3400	-.2100	-.1570						.1950	.2200	.1430

X/LS	.9670

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS44)

MACH (1) = .800 ALPHAT(2) = -5.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.1810
45.000	.0030
90.000	-.0420
135.000	-.0120
180.000	.0280
225.000	-.0350
270.000	-.0460
315.000	.0220

MACH (2) = .938 ALPHAT(3) = -5.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0440	.0290	-.3000	-.7430	-.2080	-.0950	-.0690	-.0510	-.0340	-.0990	-.1580	-.0280	.2790	.2710	.1510
45.000	1.0440	.0470	-.3680	-.6810	-.2050	-.1080							.3580	.2710	.1270
90.000	1.0440	.0990	-.3150	-.5780	-.2030	-.1290	-.1050	-.1000	-.0990	-.0950	-.1490	.0260	.4270	.3230	.1600
135.000	1.0440	.2020	-.1780	-.5050	-.1790	-.1260							.4600	.3410	.1840
180.000	1.0440	.3290	-.0840	-.3680	-.1410	-.0840	-.0760	-.0630	-.0280	-.1020	-.2190	-.0120	.4020	.2690	.1850
225.000	1.0440	.3660	-.0020	-.4420	-.1550	-.0800	-.0670						.2870	.1970	.0730
270.000	1.0440	.2210	-.0970	-1.1440	-.5820	-.4040	-.2480	-.1720			-.2700	-.0810	.1470	.2060	.0750
315.000	1.0440	.1870	-.4750	-1.0300	-.2830	-.1460	-.1270						.1700	.2510	.1450

X/LS .9670

PHI	
.000	.2030
45.000	.0280
90.000	-.0100
135.000	.0040
180.000	.0200
225.000	-.0430
270.000	-.0460
315.000	.0030

AMES 11-707 IA9 CRA + S3 + T9 SRM BOOSTER (RBW344)

MACH (1) = .999 ALPHAT(4) = -1.970

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9104	.9388
PHI															
.000	1.0780	.0940	-.2750	-.6840	-.1900	-.0840	-.0510	-.0360	-.0410	-.0770	-.1370	.0000	.3191	.2990	.1850
45.000	1.0780	.0970	-.3050	-.6210	-.1880	-.0770							.3856	.3577	.1810
90.000	1.0795	.1340	-.2760	-.5400	-.1730	-.0850	-.0700	-.0610	-.0480	-.0920	-.0990	.0480	.4181	.3910	.1893
135.000	1.0780	.1960	-.1900	-.5150	-.1610	-.0930							.4350	.3974	.1857
180.000	1.0780	.2800	-.1320	-.4330	-.1550	-.0860	-.0740	-.0580	-.0180	-.0720	-.1840	-.0000	.3870	.2755	.1453
225.000	1.0780	.3270	-.0770	-.3090	-.1690	-.0820	-.0720						.2980	.2587	.0810
270.000	1.0780	.2680	-.0220	-1.0670	-.3840	-.2390	-.1570	-.1240			-.2580	-.0830	.1620	.2787	.1941
315.000	1.0780	.1820	-.3680	-.9120	-.2470	-.1170	-.0760						.2191	.2910	.1741

X/LS	.9870
PHI	
.000	.2310
45.000	.0470
90.000	.0020
135.000	.0110
180.000	.0080
225.000	-.0470
270.000	-.0430
315.000	.0320

MACH (1) = .800 ALPHAT(5) = .080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9104	.9388
PHI															
.000	1.0870	.1500	-.2190	-.6090	-.1830	-.0790	-.0490	-.0270	-.0340	-.0340	-.1130	.0080	.3680	.3430	.2180
45.000	1.0870	.1400	-.2540	-.5840	-.1630	-.0890							.3930	.3410	.1830
90.000	1.0870	.1550	-.2370	-.5220	-.1330	-.0860	-.0670	-.0420	-.0270	-.0380	-.0870	.0780	.4060	.3260	.1880
135.000	1.0870	.1750	-.2040	-.5220	-.1480	-.0750							.4141	.3660	.1690
180.000	1.0870	.2210	-.1790	-.4840	-.1520	-.0780	-.0720	-.0520	-.0110	-.0360	-.1180	-.0040	.3310	.2720	.1440
225.000	1.0870	.2780	-.1510	-.5830	-.1740	-.0840	-.0730						.2660	.2410	.1310
270.000	1.0870	.2850	.0110	-.9770	-.2780	-.1240	-.0760	-.0580			-.2320	-.0760	.1110	.2710	.1840
315.000	1.0870	.2840	-.2830	-.7540	-.2220	-.0950	-.0620						.2110	.2770	.1690

X/LS	.9870
PHI	
.000	.2420
45.000	.0840
90.000	.0280
135.000	.0140
180.000	-.0090

AMES 11-FT7 IA9 OPA + 33 + 79 SRM BOOSTER -85N44-

MACH = 1.600 ALPHA(5) = .080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	-.1370
270.000	-.1830
315.000	-.1420

MACH = 1.600 ALPHA(6) = 2.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0000	.2110	-.1700	-.5290	-.1640	-.0650	-.0330	-.0200	-.0220	-.0410	-.0940	.0550	.4370	.5820	.2350
45.000	1.0000	.1700	-.1940	-.5270	-.1590	-.0610							.4280	.5590	.1950
90.000	1.0000	.1540	-.2080	-.5240	-.1430	-.0600	-.0400	-.0390	-.0220	-.0240	-.0480	.0790	.3760	.5110	.1520
135.000	1.0000	.1430	-.2210	-.5270	-.1480	-.0560							.3330	.2750	.1260
180.000	1.0000	.1640	-.2230	-.4960	-.1550	-.0540	-.0640	-.0480	-.0090	-.0230	-.1240	-.0100	.2870	.2340	.1370
225.000	1.0000	.2070	-.2290	-.6390	-.1770	-.0830	-.0660						.2130	.1760	.0810
270.000	1.0000	.2930	.0230	-.9070	-.2610	-.0950	-.0600	-.0480			-.2210	-.2610	.1550	.2180	.0710
315.000	1.0000	.2460	-.1930	-.5210	-.2060	-.0810	-.0410						.3250	.3270	.1610

X/LS .9870

PHI	
.000	.2420
45.000	.0350
90.000	.0410
135.000	.0040
180.000	-.0220
225.000	-.0340
270.000	-.0210
315.000	.0350

MACH = 1.600 ALPHA(7) = 4.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3897	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.0000	.2790	-.1030	-.4890	-.1580	-.0590	-.0380	-.0150	-.0190	-.0340	-.0730	.0690	.3020	.4080	.2310
45.000	1.0000	.1900	-.1280	-.5220	-.1620	-.0740							.4710	.3820	.2000
90.000	1.0000	.1740	-.1880	-.5200	-.1560	-.0750	-.0560	-.0480	-.0410	-.0330	-.0410	.0850	.3860	.2990	.1540
135.000	1.0000	.1580	-.2310	-.5700	-.1630	-.0680							.3310	.2580	.1010
180.000	1.0000	.1990	-.2300	-.5320	-.1550	-.0740	-.0640	-.0410	-.0080	-.0120	-.1130	-.0150	.1420	.2310	.0980
225.000	1.0000	.1890	-.3130	-.9400	-.1960	-.0920	-.0720						.2280	.1830	.0700

AMES 11-FOOT 1A9 OF4 + 55 + 79 SRM BOOSTER (RBMS44)

MACH (1) = .800 ALPHAT(7) = 4.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4833	.5973	.7110	.8248	.9017	.9344	.9588
PHI															
270.000	1.0710	.2580	-.0040	-1.1140	-.3080	-.1480	-.1090	-.0970			-.1940	-.0520	.1930	.2480	.0830
315.000	1.0710	.2580	-.1090	-.5560	-.1930	-.0700	-.0350						.4010	.3490	.1190

X/LS .9877

PHI	
.000	.2720
45.000	.0990
90.000	.0370
135.000	-.0100
180.000	.0480
225.000	-.0780
270.000	-.0780
315.000	.0360

MACH (1) = .900 ALPHAT(8) = 6.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4833	.5973	.7110	.8248	.9017	.9344	.9588
PHI															
.000	1.0380	.3310	-.0700	-.4110	-.1440	-.0540	-.0320	-.0040	-.0070	-.0330	-.0780	.0880	.5500	.4580	.2710
45.000	1.0380	.2000	-.0700	-.4800	-.1730	-.0680							.4720	.3410	.1920
90.000	1.0380	.0950	-.1700	-.5560	-.1760	-.0990	-.0840	-.0800	-.0690	-.0470	-.0450	.0420	.3680	.2510	.0943
135.000	1.0380	.0330	-.2900	-.6040	-.1580	-.0800							.2520	.1930	.0809
180.000	1.0380	.0330	-.3180	-.5830	-.1540	-.0690	-.0570	-.0420	-.0020	-.0010	-.1010	-.0110	.2270	.1620	.0690
225.000	1.0380	.0740	-.4110	-.6700	-.2110	-.1050	-.0980						.3200	.1620	.0690
270.000	1.0380	.2080	-.0660	-1.1710	-.4430	-.2720	-.2060	-.1660			-.2030	.0020	.2890	.2500	.0930
315.000	1.0380	.2990	-.0340	-.4610	-.1700	-.0530	-.0160						.4780	.3480	.2120

X/LS .9670

PHI	
.000	.2800
45.000	.1170
90.000	.0490
135.000	-.0300
180.000	-.0740
225.000	-.0860
270.000	-.0850
315.000	.0390

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM544)

MACH (1) = .599 ALPHAT(9) = 8.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	.9900	.3910	-.0230	-.3550	-.1190	-.0410	-.0210	.0030	-.0050	-.0280	-.0720	.1020	.5710	.4670	.2890
45.000	.9900	.2010	-.0900	-.4550	-.19[illegible]	-.1160							.4560	.3300	.1780
90.000	.9900	.0340	-.1620	-.5680	-.2250	-.1440	-.1300	-.1300	-.1200	-.0850	-.0630	.0150	.3270	.1950	.0530
135.000	.9900	-.0040	-.3300	-.5830	-.1940	-.0990							.2070	.1470	.0140
180.000	.9900	.0010	-.3630	-.6180	-.1560	-.0700	-.0590	-.0480	-.0090	.0190	-.0630	.0050	.3240	.1750	.0150
225.000	.9900	-.0250	-.5130	-.9320	-.2170	-.1390	-.1370						.3130	.1650	.0500
270.000	.9900	.1230	-.1570	-1.3110	-.6600	-.4240	-.2790	-.1940			-.2000	.0690	.1950	.2190	.0870
315.000	.9900	.3650	.0410	-.3780	-.1450	-.0370	.0040						.3210	.4220	.2060

X/LS	.9670
PHI	
.000	.2890
45.000	.1380
90.000	.0340
135.000	-.0650
180.000	-.1060
225.000	-.1060
270.000	-.1040
315.000	.0400

MACH (2) = .901 ALPHAT(1) = -8.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.0950	.0680	-.0800	-1.1300	-.8170	-.2660	-.1220	-.0730	-.0730	-.1770	-.3270	-.1560	.1880	.1480	.0910
45.000	1.0950	.0620	-.1540	-1.1270	-.9190	-.2080							.1860	.1770	.0850
90.000	1.0950	.1170	-.1330	-1.1250	-.6400	-.3020	-.2920	-.2360	-.2390	-.2620	-.4370	-.0380	.3790	.3330	.2050
135.000	1.0950	.3320	.0520	-1.0400	-.3510	-.3650							.4600	.4260	.2680
180.000	1.0950	.5750	.2470	-.6700	-.1510	-.1470	-.2490	-.0590	-.0020	-.0580	-.4350	-.0560	.3850	.3390	.1970
225.000	1.0950	.5610	.3940	-.7740	-.0980	-.0920	-.1600						.1150	-.0560	-.0840
270.000	1.0950	.2280	.0820	-.9060	-.5680	-.8650	-.1230	.0050			-.2890	-.2090	-.1330	-.0660	.0200
315.000	1.0950	.1440	-.3430	-.9370	-.9560	-.5750	-.0720						.2560	.1990	.1480

X/LS	.9670
PHI	
.000	.1930
45.000	-.0050
90.000	-.0270
135.000	.0640
180.000	.1180

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7D* IA9 ORA + S3 + T9 SRM BOOSTER (RBM544)

MACH (2) = .901 ALPHAT(1) = -8.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9879

PHI	
225.000	.0360
270.000	-.0410
315.000	.1330

MACH (2) = .901 ALPHAT(2) = -6.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1440	.1230	-.0850	-1.1170	-.7020	-.2600	-.0740	-.0540	-.0410	-.0970	-.2280	-.0550	.1720	.1990	.1570
45.000	1.1440	.1280	-.0990	-1.1030	-.8880	-.1470							.2620	.2700	.1590
90.000	1.1440	.1820	-.0830	-1.0980	-.7830	-.2070	-.2020	-.1490	-.1390	-.1750	-.3390	.0090	.4270	.3820	.2380
135.000	1.1440	.3490	.0640	-1.0440	-.4410	-.2020							.4860	.4390	.2770
180.000	1.1440	.5180	.2090	-.9420	-.3320	-.1070	-.2050	-.0520	.0100	-.0410	-.3580	-.0400	.3930	.3550	.2180
225.000	1.1440	.5320	.3440	-.8390	-.5680	-.0920	-.1510						.1400	.0220	-.0320
270.000	1.1440	.3120	.1920	-.8710	-.6430	-.8460	-.1400	-.0080			-.2390	-.2260	-.0860	.0190	.0110
315.000	1.1440	.1720	-.2160	-.8150	-.8070	-.4190	-.1100						.2000	.1700	.0930

X/LS .9879

PHI	
.000	.1880
45.000	.0700
90.000	.0350
135.000	.0900
180.000	.1300
225.000	.0440
270.000	-.0710
315.000	.0360

MACH (2) = .899 ALPHAT(3) = -4.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1830	.1780	-.0380	-1.1100	-.8120	-.1740	-.0510	-.0290	-.0340	-.0680	-.1700	-.0230	.1800	.2530	.2250
45.000	1.1830	.1820	-.0550	-1.0930	-.8620	-.0640							.3380	.3480	.2110
90.000	1.1830	.2510	-.0360	-1.0880	-.7740	-.1080	-.1460	-.0900	-.0670	-.0940	-.2230	.0360	.4540	.4160	.2540
135.000	1.1830	.3380	.0680	-1.0540	-.5920	-.1240							.4920	.4400	.2710
180.000	1.1830	.4630	.1740	-.9810	-.4180	-.0760	-.1840	-.0320	.0160	-.0210	-.2820	-.0200	.4000	.3590	.2570
225.000	1.1830	.5030	.2950	-.9020	-.6890	-.0810	-.1530						.1850	.0810	.0070

MACH (2) = .899 ALPHAT(3) = -4.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
270.000	1.1830	.3720	.2860	-.8400	-.7740	-.5930	-.1720	-.0360			-.2240	-.2120	-.0200	.0860	.0110
315.000	1.1830	.2440	-.1100	-1.1620	-.7350	-.3320	-.0780						.0710	.1600	.1030

X/LS	.9570
PHI	
.000	.2060
45.000	.1180
90.000	.0730
135.000	.0990
180.000	.1210
225.000	.0380
270.000	-.0630
315.000	.0360

MACH (2) = .900 ALPHAT(4) = -1.890

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2070	.2350	.0070	-1.0890	-.8500	-.0860	-.0390	-.0170	-.0160	-.0430	-.1300	-.0190	.2850	.3280	.2520
45.000	1.2070	.2340	.0030	-1.0730	-.8270	-.0110							.3630	.3620	.2900
90.000	1.2070	.2560	.0050	-1.0720	-.7700	-.0260	-.0920	-.0500	-.0200	-.0430	-.1440	.0670	.4500	.4280	.2620
135.000	1.2070	.3260	.0660	-1.0570	-.6670	-.0490							.4750	.4500	.2580
180.000	1.2070	.4110	.1380	-1.0070	-.5100	-.0370	-.1590	-.0540	.0220	.0060	-.1740	-.0120	.3880	.3440	.2590
225.000	1.2070	.4620	.2360	-.9540	-.7880	-.0490	-.1420						.1990	.1070	.0310
270.000	1.2070	.4170	.3550	-.8050	-.6010	-.3260	-.1390	-.0380			-.1900	-.1850	.0460	.1290	.0360
315.000	1.2070	.3290	-.0100	-1.1140	-.7000	-.2470	-.0500						.0950	.1620	.1430

X/LS	.9670
PHI	
.000	.2200
45.000	.1320
90.000	.1010
135.000	.1060
180.000	.1070
225.000	.0230
270.000	-.0580
315.000	.0650

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS44)

MACH (2) = .902 ALPHAT(5) = .010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2150	.2890	.0550	-1.0710	-.7930	-.0170	-.0300	-.0190	-.0100	-.0290	-.1110	-.0080	.3530	.3750	.2800
45.000	1.2150	.2890	.0490	-1.0610	-.7930	.0240							.4190	.4120	.2700
90.000	1.2150	.2800	.0290	-1.0640	-.7680	.0270	-.0600	-.0380	.0010	-.0010	-.0910	.0840	.4210	.4100	.2570
135.000	1.2150	.3060	.0580	-1.0620	-.7140	.0000							.4060	.3980	.2400
180.000	1.2150	.3570	.0990	-1.0290	-.5990	-.0060	-.1320	-.0590	.0260	.0230	-.1240	.0000	.3550	.3210	.2400
225.000	1.2150	.4170	.1770	-1.0010	-.8780	-.0290	-.1230						.2070	.1120	.0450
270.000	1.2150	.4310	.3880	-.7900	-.8120	-.1640	-.0810	-.0390			-.1760	-.1650	.0630	.1530	.0420
315.000	1.2150	.3810	.0680	-1.0720	-.6880	-.1240	-.0440						.1650	.2040	.1690

X/LS	.9670
PHI	
.000	.2410
45.000	.1980
90.000	.1160
135.000	.0980
180.000	.0870
225.000	.0120
270.000	-.0420
315.000	.0890

MACH (2) = .902 ALPHAT(6) = 1.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2140	.3460	.1020	-1.0490	-.7250	.0260	-.0350	-.0150	.0020	-.0110	-.0890	.0120	.4230	.4220	.3100
45.000	1.2140	.2960	.0800	-1.0490	-.7550	.0400							.4530	.4330	.2880
90.000	1.2140	.2780	.0500	-1.0590	-.7830	.0480	-.0490	-.0390	.0010	.0170	-.0630	.0770	.4100	.3900	.2430
135.000	1.2140	.2790	.0420	-1.0650	-.7500	.0340							.3840	.3590	.2030
180.000	1.2140	.3030	.0580	-1.0460	-.6845	.0090	-.1040	-.0570	.0200	.0400	-.1050	.0010	.2950	.2640	.2100
225.000	1.2140	.3580	.1080	-1.0440	-.6980	-.0040	-.0970						.1570	.1100	.0480
270.000	1.2140	.4260	.3940	-.7850	-.7380	-.0670	-.0590	-.0350			-.1490	-.1520	.0720	.1560	.0420
315.000	1.2140	.4250	.1410	-1.0260	-.6500	-.0220	-.0370						.2460	.2940	.1770

X/LS	.9670
PHI	
.000	.2610
45.000	.1830
90.000	.1330
135.000	.08
180.000	.0550

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 02A + S3 + T9 SRM BOOSTER (RBMS44)

MACH (2) = .902 ALPHAT(6) = 1.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9675

PHI	
229.000	-.0020
270.000	-.0030
315.000	.1030

MACH (2) = .901 ALPHAT(7) = 4.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1139	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2020	.3980	.1310	-1.0310	-.6460	.0220	-.0240	-.0080	.0030	-.0050	-.0710	.0310	.5080	.4710	.3450
45.000	1.2020	.3150	.1190	-1.0490	-.7160	.0200							.5010	.4530	.2960
90.000	1.2020	.2970	.0630	-1.0660	-.7590	.0310	-.0550	-.0540	-.0100	.0160	-.0400	.0650	.3980	.3690	.2200
135.000	1.2020	.2360	.0130	-1.0690	-.3800	.0400							.3040	.2940	.1680
180.000	1.2020	.2450	.0150	-1.0660	-.6230	-.0030	-.0850	-.0610	.0310	.0520	-.0730	-.0110	.2720	.2640	.1670
225.000	1.2020	.2890	.0820	-1.0970	-.6420	-.0840	-.0860						.1840	.1170	.0540
270.000	1.2020	.3980	.3670	-.8020	-.7800	-.1150	-.0750	-.0970			-.1200	-.1270	.1340	.1770	.0540
315.000	1.2020	.4280	.2080	-.9880	-.9070	-.0090	-.0180						.3290	.3010	.1860

X/LS .9675

PHI	
.000	.2930
45.000	.2120
90.000	.1420
135.000	.0710
180.000	.0220
225.000	-.0290
270.000	-.0620
315.000	.1090

MACH (2) = .904 ALPHAT(8) = 6.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.1750	.4540	.4630	-1.0070	-.5640	.0050	-.0210	-.0100	.0100	-.0020	-.0670	.0430	.5680	.5090	.3750
45.000	1.1750	.3240	.1570	-1.0430	-.6730	-.0200							.5200	.4470	.2890
90.000	1.1750	.2200	.0710	-1.0780	-.7280	-.0170	-.0810	-.1030	-.0480	-.0040	-.0330	.0430	.3780	.3310	.1750
135.000	1.1750	.1850	-.0250	-1.0960	-.4200	.0240							.2540	.2340	.1140
180.000	1.1750	.1870	-.0270	-1.0880	-.4010	-.0250	-.0720	-.0760	.0320	.0860	-.0340	-.0360	.3280	.2650	.1150
225.000	1.1750	.2110	-.0780	-1.1210	-.6570	-.1740	-.0790						.2330	.1470	.0890

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS44)

MACH (2) = .904 ALPHAT(8) = 6.000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.1750	.3450	.3130	-.8520	-.7640	-.2070	-.1180	-.1390			-.1020	-.1220	.1510	.1990	.0680
315.000	1.1750	.3450	.2620	-.9420	-.8360	-.0150	-.0090						.4030	.3440	.2010

X/LS	.9670
PHI	
.000	.3140
45.000	.2360
90.000	.1440
135.000	.0450
180.000	-.0100
225.000	-.0420
270.000	-.0450
315.000	.1250

MACH (2) = .898 ALPHAT(9) = 7.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.1360	.5100	.2430	-.9770	-.4690	-.0160	-.0210	-.0020	.0070	-.0060	-.0560	.0480	.6120	.5350	.4090
45.000	1.1360	.3240	.1980	-1.0370	-.6190	-.0780							.5180	.4300	.2770
90.000	1.1360	.1630	.0670	-1.0920	-.6300	-.0920	-.1320	-.1530	-.0960	-.0050	-.0240	.0030	.3480	.2580	.1140
135.000	1.1360	.1230	-.0660	-1.1130	-.4340	-.0270							.2300	.1620	.0570
180.000	1.1360	.1290	-.0740	-1.1020	-.3820	-.1040	-.0650	-.0720	.0290	.0660	-.0230	-.0530	.3820	.2630	.0800
225.000	1.1360	.1190	-.1930	-1.1890	-.5970	-.2960	-.0710						.2490	.1690	.1070
270.000	1.1360	.2740	.2290	-.8720	-.6520	-.3540	-.1450	-.1460			-.0960	-.0810	.1670	.2020	.0840
315.000	1.1360	.4480	.3110	-.8090	-.7490	-.0300	.0110						.4470	.3830	.2020

X/LS	.9670
PHI	
.000	.3380
45.000	.2580
90.000	.1430
135.000	.0030
180.000	-.0650
225.000	-.0510
270.000	-.0530
315.000	.1060

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBNS44)

MACH (3) = 1.103 ALPHAT(1) = -8.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2190	.1910	.1630	-.6770	-.5880	-.2100	-.0920	-.1290	-.1150	-.0140	-.0990	-.3560	.0970	.1340	.1300
45.000	1.2190	.1880	.0710	-.6740	-.5530	-.3190							.0380	.1070	.1770
90.000	1.2190	.2600	.0980	-.6710	-.4410	-.2890	-.4160	-.3500	-.2990	-.1250	-.2790	-.3280	.0570	.4210	.3480
135.000	1.2190	.4820	.2900	-.5930	-.1700	-.1130							.1030	.5560	.4120
180.000	1.2190	.6970	.4690	-.4560	-.0010	.1020	-.0420	-.2040	-.1140	.0860	-.2280	-.3970	.0940	.3780	.2920
225.000	1.2190	.6610	.5840	-.3700	.0080	.1550	.0520						-.0100	-.1070	-.1930
270.000	1.2190	.3460	.2710	-.5030	-.6930	-.5220	-.0680	-.1180			-.0920	-.2650	-.1930	-.1820	-.0980
315.000	1.2190	.3480	-.1140	-.8020	-.7900	-.5610	-.0360						.1340	.0840	-.0510

X/LS	.9670
PHI	
.000	.1860
45.000	.0810
90.000	.1130
135.000	.2240
180.000	.2680
225.000	.1150
270.000	-.0490
315.000	.2050

MACH (3) = 1.097 ALPHAT(2) = -5.950

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2500	.2290	.2190	-.6560	-.5490	-.1760	-.0150	-.0810	-.1260	-.0330	-.0420	-.2680	.1190	.1750	.1880
45.000	1.2500	.2430	.1330	-.6500	-.5190	-.2590							.0810	.2170	.2650
90.000	1.2500	.3180	.1570	-.6450	-.4350	-.2430	-.1920	-.2460	-.2680	-.0800	-.1750	-.2820	.1670	.4720	.3720
135.000	1.2500	.4710	.3070	-.5980	-.2350	-.1210							.1980	.5810	.4120
180.000	1.2500	.6100	.4390	-.5130	-.0500	.0820	-.0240	-.2040	-.1570	.0830	-.1900	-.3460	.1390	.3870	.3490
225.000	1.2500	.5730	.5450	-.4210	-.2090	.1380	.0390						.0040	-.0540	-.0980
270.000	1.2500	.3380	.3850	-.4680	-.7380	-.5270	-.2310	-.1470			-.0820	-.2390	-.1500	-.1170	-.1050
315.000	1.2500	.3390	.0250	-.7470	-.8010	-.3530	-.1920						.1650	.1020	-.0090

X/LS	.9670
PHI	
.000	.1850
45.000	.1340
90.000	.1740
135.000	.2510
180.000	.2790

AMES 11-7D7 IA9 ORA + S3 + T9 SRM BOOSTER (RONS44)

MACH (3) = 1.097 ALPHAT(2) = -5.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9670

PHI	
225.000	.1320
270.000	-.0700
315.000	.1410

MACH (3) = 1.100 ALPHAT(3) = -3.970

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2780	.2610	.2820	-.6450	-.5150	-.1960	.0210	-.0230	-.0870	-.0250	-.0320	-.1820	.1320	.1880	.2180
													.1710	.3390	.3250
45.000	1.2780	.2790	.1850	-.6320	-.4820	-.2130							.2430	.4980	.4030
90.000	1.2780	.3450	.2060	-.6270	-.4280	-.1830	-.0330	-.1590	-.2000	-.0280	-.1090	-.2430	.2300	.5670	.4180
135.000	1.2780	.4490	.3070	-.5980	-.3160	-.1560							.1480	.5970	.3100
180.000	1.2780	.5440	.3970	-.5420	-.1300	-.1220	.0060	-.1590	-.1760	.1000	-.1350	-.3390	.0390	.0170	-.0340
225.000	1.2780	.5380	.4910	-.4780	-.3160	-.0790	.0310						-.0770	-.0300	-.0370
270.000	1.2780	.4010	.4710	-.4280	-.7940	-.3700	-.2670	-.1830			-.0810	-.2360	.1150	.1200	.0540
315.000	1.2780	.3680	.1280	-.7000	-.7540	-.2430	-.0380								

X/LS .9670

PHI	
.000	.1570
45.000	.1800
90.000	.2240
135.000	.2740
180.000	.2790
225.000	.1350
270.000	-.0410
315.000	.0610

MACH (3) = 1.102 ALPHAT(4) = -1.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2930	.3210	.2810	-.6340	-.4850	-.2100	.0290	-.0020	-.0840	-.0240	-.0270	-.1520	.1570	.2810	.3130
													.2440	.4010	.3760
45.000	1.2930	.3210	.2200	-.6200	-.4640	-.1890							.2870	.4940	.4180
90.000	1.2930	.3810	.2380	-.6180	-.4330	-.1470	.0300	-.0960	-.1640	.0210	-.0545	-.2020	.2570	.5130	.4110
135.000	1.2930	.4260	.3010	-.6060	-.3660	-.1470							.1950	.4080	.3830
180.000	1.2930	.4980	.3500	-.5770	-.2460	-.1500	.0350	-.1300	-.2080	.1120	-.0890	-.3200	.0860	.0480	-.0320
225.000	1.2930	.5220	.4290	-.5390	-.4380	-.1020	.0420								

MACH (5) = 1.102 ALPHAT(4) = -1.990

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.2930	.4630	.5210	-.4030	-.8090	-.4180	-.3410	-.2030			-.0900	-.2130	-.0360	.0190	-.0320
315.000	1.2930	.4450	.2130	-.6690	-.7010	-.2010	-.0030						.0330	.0750	.0010

X/LS	.9670
PHI	
.000	.1610
45.000	.2490
90.000	.2710
135.000	.2680
180.000	.2780
225.000	.1330
270.000	-.0330
315.000	.0760

MACH (3) = 1.100 ALPHAT(5) = .000

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2940	.3800	.2990	-.6230	-.4380	-.2290	.0350	.0180	-.0530	-.0340	-.0180	-.1360	.2510	.3760	.3770
													.3130	.4490	.4100
45.000	1.2940	.3490	.2680	-.6130	-.4380	-.1890							.3110	.4590	.4170
90.000	1.2940	.3680	.2660	-.6180	-.4230	-.1210	.0740	-.0450	-.1340	.0390	.0050	-.1530	.2860	.4720	.3910
135.000	1.2940	.3950	.2880	-.6190	-.4070	-.1380							.2180	.3830	.3910
180.000	1.2940	.4310	.3150	-.6000	-.3490	-.1600	.0640	-.1130	-.1980	.1150	-.0560	-.2890	.1030	.0790	-.0180
225.000	1.2940	.4620	.3710	-.5900	-.5250	-.0190	.0580								
270.000	1.2940	.4820	.3580	-.3930	-.8180	-.1190	-.0690	-.1370			-.0790	-.1800	-.0200	.0430	-.0170
315.000	1.2940	.4810	.2930	-.6320	-.6260	-.1200	.0100						.0740		.1080

X/LS	.9670
PHI	
.000	.2080
45.000	.2900
90.000	.2970
135.000	.2920
180.000	.2640
225.000	.1270
270.000	-.0260
315.000	.0950

AMES 11-FT IA9 C2A + S3 + T9 SRM BOOSTER (RBMS44)

MACH (3) = 1.101 ALPHAT(6) = 2.040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2930	.4210	.3400	-.6080	-.3830	-.2140	.0330	.0280	-.0480	-.0530	-.0020	-.1060	.3300	.4800	.4210
45.000	1.2930	.3910	.3190	-.6040	-.4160	-.1900							.3480	.4670	.4270
90.000	1.2930	.3640	.2870	-.6100	-.4200	-.124	.0970	-.0150	-.1240	.0210	.0380	-.1260	.3180	.4270	.3930
135.000	1.2930	.3660	.2680	-.6140	-.4310	-.1230							.2860	.4440	.3710
180.000	1.2930	.3780	.2680	-.6160	-.4110	-.0540	.0820	-.0880	-.1490	.0960	-.0160	-.2830	.2140	.3550	.3700
225.000	1.2930	.4100	.2960	-.6280	-.6170	.0170	.0650						.1000	.0780	.0160
270.000	1.2930	.4500	.3570	-.3890	-.8200	-.0290	.0220	-.0470			-.0650	-.1550	.0360	.0970	.0200
315.000	1.2930	.4500	.3580	-.3900	-.5640	-.0710	.0130						.1570	.2110	.1520

X/LS	.9870
PHI	
.000	.2530
45.000	.3280
90.000	.3160
135.000	.2770
180.000	.2430
225.000	.1150
270.000	.0150
315.000	.1330

MACH (3) = 1.102 ALPHAT(7) = 3.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2850	.4710	.3780	-.5900	-.3310	-.1750	.0160	.0450	-.0200	-.0580	.0220	-.0540	.4300	.5370	.4580
45.000	1.2850	.4020	.3350	-.5990	-.4000	-.1970							.4060	.5180	.4320
90.000	1.2850	.3380	.2880	-.6170	-.4380	-.1620	.0960	.0000	-.1220	-.0060	.0890	-.0860	.2710	.3690	.3660
135.000	1.2850	.3120	.2370	-.6300	-.4610	-.0890							.2810	.3420	.3090
180.000	1.2850	.3210	.2290	-.6310	-.4730	-.0460	.0940	-.0700	-.1090	.0920	.0540	-.2700	.2520	.3720	.3080
225.000	1.2850	.3550	.2150	-.6700	-.6590	-.0700	.0700						.1210	.0830	.0280
270.000	1.2850	.4310	.5320	-.3980	-.7510	-.1010	.0520	-.0410			-.0350	-.1300	.0590	.1240	.0240
315.000	1.2850	.4450	.4120	-.5570	-.5010	-.0500	.0090						.2530	.2990	.1700

X/LS	.9870
PHI	
.000	.2950
45.000	.3580
90.000	.3280
135.000	.2870
180.000	.1960

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBM548)

MACH (3) = 1.102 ALPHAT(7) = 3.980

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9870

PHI	
225.000	.0970
270.000	.0280
315.000	.1420

MACH (3) = 1.102 ALPHAT(8) = 6.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2700	.5250	.4110	-.5730	-.2470	-.0850	-.0230	.0500	-.0060	-.0600	.0160	-.0430	.5220	.5850	.4830
45.000	1.2700	.4080	.3780	-.5980	-.3640	-.1950							.4560	.5370	.4200
90.000	1.2700	.2970	.2950	-.6290	-.4470	-.2120	.0550	-.0070	-.1410	-.0370	.1060	-.0840	.2680	.3340	.3080
135.000	1.2700	.2630	.2020	-.6470	-.4850	-.0720							.2720	.3060	.2390
180.000	1.2700	.2640	.1775	-.6510	-.5180	-.0620	.0910	-.0540	-.0890	.0920	.1070	-.2540	.3900	.3690	.2370
225.000	1.2700	.2700	.1060	-.7170	-.4900	-.1920	.0620						.2140	.1180	.0570
270.000	1.2700	.3820	.4740	-.4270	-.5310	-.2380	.0320	-.0310			-.0260	-.1120	.0810	.1580	.0290
315.000	1.2700	.4900	.4700	-.5150	-.4330	-.0480	-.0110						.2990	.3320	.2080

X/LS .9670

PHI	
.000	.3280
45.000	.3830
90.000	.3210
135.000	.2250
180.000	.1390
225.000	.0840
270.000	.0260
315.000	.1780

MACH (3) = 1.102 ALPHAT(9) = 8.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.2450	.5810	.4180	-.5520	-.1740	-.0280	-.0500	.0560	.0020	-.0540	.0320	-.0230	.5950	.6180	.5070
45.000	1.2450	.4130	.3600	-.6000	-.3430	-.1890							.4940	.5280	.3970
90.000	1.2450	.2580	.2680	-.6480	-.4620	-.2780	.0030	-.0360	-.1780	-.0700	.1230	-.0890	.2670	.3020	.2250
135.000	1.2450	.2130	.1440	-.6630	-.5280	-.1210							.2670	.2650	.1610
180.000	1.2450	.2220	.1210	-.6640	-.4350	-.1210	.0980	-.0420	-.0790	.0870	.1460	-.2370	.4480	.3480	.1830
225.000	1.2450	.1980	-.0160	-.5330	-.5150	-.2790	.0230						.2610	.1350	.0380

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS44)

MACH (3) = 1.102 ALPHA(9) = 8.010

SECTION (3)SRM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
Phi															
270.000	1.2450	.3150	.3990	-.4570	-.4780	-.4000	.0020	-.0250			-.0190	-.1020	.1000	.1730	.0300
315.000	1.2450	.5380	.5040	-.4700	-.3630	-.0075	.0060						.3740	.3410	.2130

X/L3 .9879

Phi	
.000	.3420
45.000	.4080
90.000	.3120
135.000	.1810
180.000	.1090
225.000	.0820
270.000	-.0190
315.000	.1790

MACH (4) = 1.247 ALPHA(1) = -8.080

SECTION (3)SRM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
Phi															
.000	1.2540	.1310	.1580	-.5000	-.4580	-.3770	-.0820	-.1130	-.1250	-.0640	-.0390	-.3040	.0850	.0850	.1080
45.000	1.2540	.2720	.1190	-.4880	-.4270	-.3020							.0000	.0540	.1190
90.000	1.2540	.1800	.1390	-.4730	-.3680	-.2760	-.3140	-.4450	-.3480	-.1940	-.2390	-.2650	-.0030	.1270	.3840
135.000	1.2540	.4270	.3690	-.4170	-.2010	-.1560							.0140	.1640	.5090
180.000	1.2540	.8240	.5320	-.3390	.0370	-.0370	.0790	-.1450	-.2620	-.0940	-.1300	-.3540	-.0280	.1690	.5090
225.000	1.2540	.8040	.8430	-.2880	-.0690	-.0080	.1580						.0280	-.0300	.1020
270.000	1.2540	.3290	.4210	-.3010	-.3690	-.4480	-.3460	-.1040			-.0440	-.2510	-.1670	-.1430	-.0920
315.000	1.2540	.2830	-.0730	-.6410	-.7200	-.5330	-.1270						.0230	.1370	-.0300

X/L3 .9879

Phi	
.000	.1370
45.000	.1180
90.000	.1490
135.000	.2660
180.000	.5040
225.000	.6470
270.000	.2830
315.000	.7490

TABULATED PRESSURE DATA - 149A

(RBH544)

INDEPENDENT VARIABLE CP

		.0987	.1150	.1422	.1991	.2844	.3837	.4835	.5973	.7110	.8248	.8817	.9044	.9388
		.1630	.4890	-.6230	-.3845	-.1275	-.0825	-.1190	-.0695	-.0080	-.2680	.1370	.1180	.1580
		.1840	-.4560	-.3810	-.2510							.0580	.1200	.2150
		.1370	-.4480	-.3370	-.2740	-.2000	-.1920	-.2800	-.1230	-.1420	-.2220	.0770	.2730	.3830
		.1870	-.4170	-.2990	-.1350							.0570	.2720	.5080
		.4160	-.3310	-.2960	-.1410	.1110	-.1540	-.2470	-.0480	-.0770	-.2980	.0330	.1930	.5160
		.8140	-.2980	-.2160	-.0110	.1660						.0170	.0120	-.0210
		.3170	-.2760	-.3500	-.4420	-.1810	-.1190			-.0490	-.2580	-.1550	-.1030	-.0890
		.1230	-.3730	-.6450	-.3580	-.1550						.0330	.1430	-.0140

INDEPENDENT VARIABLE CP

INDEPENDENT VARIABLE CP

[illegible]

[illegible]

[illegible]

MACH (4) = 1.248 ALPHAT(5) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000	1.3470	.4500	.6510	-.2120	-.6220	-.1810	.0270	-.1670			-.0480	-.1690	-.0470	-.0070	-.0090
315.000	1.3470	.4500	.3540	-.4400	-.4840	-.2030	.0170						.0400	.0900	.0910

X/LS	.9670
PHI	
.000	.1930
45.000	.3280
90.000	.3570
135.000	.3610
180.000	.3510
225.000	.1830
270.000	.0030
315.000	.1080

MACH (4) = 1.244 ALPHAT(6) = 2.070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9388
PHI															
.000	1.3420	.3520	.4360	-.4140	-.2970	-.2520	-.0100	-.0080	-.0230	-.0360	.0280	-.0840	.2550	.3890	.4110
45.000	1.3420	.2170	.3640	-.4140	-.3020	-.1920							.2590	.3840	.4010
90.000	1.3420	.1670	.3410	-.4170	-.3040	-.1660	-.0380	.0530	-.0720	-.0660	.0740	-.0370	.2280	.3500	.3740
135.000	1.3420	.1330	.3110	-.4260	-.3130	-.1530							.1680	.4030	.4100
180.000	1.3420	.2780	.3140	-.4290	-.3200	-.1700	.0700	-.0190	-.1540	.0680	.0520	-.2270	.0990	.3430	.4090
225.000	1.3420	.3800	.3480	-.4470	-.4910	-.0790	.0780						.0820	.1060	.0870
270.000	1.3420	.4370	.6490	-.2120	-.6290	-.1600	.0460	-.0800			-.0480	-.1760	-.0120	.0380	.0120
315.000	1.3420	.4360	.4260	-.4040	-.4300	-.2419	.0130						.1290	.1870	.1120

X/LS	.9670
PHI	
.000	.2310
45.000	.3630
90.000	.3750
135.000	.3610
180.000	.3300
225.000	.1770
270.000	.0050
315.000	.1410

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS44)

MACH (4) = 1.248 ALPHAT(7) = 4.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3380	.3860	.4710	-.4900	-.2600	-.2060	-.0230	-.0180	-.0040	-.0300	.0170	-.0330	.3390	.4800	.4290
45.000	1.3380	.2530	.4070	-.4110	-.2900	-.1830							.3190	.4390	.3970
90.000	1.3380	.1350	.3470	-.4260	-.3100	-.1870	-.0390	.0540	-.0710	-.0730	.0880	-.0290	.2070	.2870	.3180
135.000	1.3380	.0790	.2850	-.4350	-.3290	-.1770							.1900	.3280	.3280
180.000	1.3380	.1960	.2620	-.4430	-.3610	-.1600	.0290	.0060	-.1420	.0440	.0650	-.2200	.1110	.4310	.3290
225.000	1.3380	.3060	.2610	-.4870	-.5370	-.1700	.0550						.0870	.1250	.0820
270.000	1.3380	.4080	.6280	-.2220	-.6250	-.2230	.0230	-.0240			-.0210	-.1570	.0120	.0610	.0180
315.000	1.3380	.4090	.4860	-.3720	-.3770	-.2360	.0060						.2040	.2610	.1270

X/LS	.9670
PHI	
.000	.2370
45.000	.3900
90.000	.3760
135.000	.3050
180.000	.2660
225.000	.1450
270.000	.0490
315.000	.1570

MACH (4) = 1.248 ALPHAT(8) = 6.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3280	.4840	.4970	-.3890	-.2140	-.1590	-.0360	-.0250	.0060	-.0220	.0140	-.0100	.4110	.5520	.4780
45.000	1.3280	.3220	.4420	-.4120	-.2840	-.1860							.3480	.4750	.4220
90.000	1.3280	.1810	.3510	-.4390	-.3300	-.2130	-.0690	.0380	-.0700	-.0810	.1020	-.0100	.2350	.2890	.2730
135.000	1.3280	.0480	.2490	-.4540	-.3570	-.2350							.2550	.3130	.2870
180.000	1.3280	.1480	.2170	-.4630	-.3910	-.1780	.0310	.0290	-.1140	.0450	.1030	-.2010	.1380	.5080	.2870
225.000	1.3280	.2120	.1620	-.5360	-.4760	-.3190	.0290						.1270	.1680	.0850
270.000	1.3280	.3490	.5820	-.2450	-.5550	-.3310	-.0420	-.0150			.0220	-.1570	.0420	.0790	.0210
315.000	1.3280	.3710	.5410	-.3420	-.3200	-.1320	.0000						.2550	.3030	.1530

X/LS	.9670
PHI	
.000	.2740
45.000	.4320
90.000	.3880
135.000	.2790
180.000	.2280

AMES 11-707 IA9 OEA + S3 + T9 SRM BOOSTER (RBMS44)

MACH (4) = 1.246 ALPHAT(8) = 6.030

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS .9679

PHI	
229.000	.1440
270.000	.0210
315.000	.1710

MACH (4) = 1.246 ALPHAT(9) = 8.010

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0987	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3010	.5310	.5330	-.3740	-.1660	-.1080	-.0420	-.0350	-.0010	-.0320	.0010	.0190	.4790	.6040	.5180
45.000	1.3010	.3560	.4770	-.4170	-.2770	-.1920							.3690	.4975	.4300
90.000	1.3010	.1390	.3470	-.4610	-.3580	-.2620	-.1870	-.0040	-.1030	-.1360	.1140	-.0170	.2800	.2950	.2290
135.000	1.3010	.0140	.1910	-.4750	-.3930	-.2710							.2480	.2830	.2180
180.000	1.3010	.1090	.1370	-.4790	-.4230	-.2820	.0240	.0390	-.1010	.0310	.1500	-.2140	.1790	.4920	.2270
225.000	1.3010	.1240	.0330	-.3910	-.5100	-.3970	-.0300						.1590	.1910	.1110
270.000	1.3010	.2810	.5030	-.2740	-.5940	-.3960	-.0650	.0050			.0450	-.1180	.0570	.1980	.0370
315.000	1.3010	.4400	.5810	-.3170	-.2600	-.0720	.0010						.3020	.3220	.1690

X/LS .9679

PHI	
.000	.2780
45.000	.4530
90.000	.3940
135.000	.2240
180.000	.1580
225.000	.1320
270.000	.0390
315.000	.1830

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORDINC = 1.500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .801 ALPHAT(1) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0220	.7220	.0420	-.3430	-.4080	-.3720	-.2650	-.1550	-.1090	-.1100	-.0710	-.0610	-.0570	-.0510	-.0240
30.000	1.0220		.0520	-.3630	-.4100	-.3690	-.2660	-.1570	-.1430	-.1540	-.1010	-.0670	-.0640	-.0590	-.0320
60.000	1.0220		.1180	-.2950	-.3690	-.3580	-.2450	-.1470	-.2500	-.4650	-.1870	-.1540	-.0850	-.1070	-.1020
90.000	1.0220	.8980	.2210	-.2030	-.2970	-.2640	-.1110	.0300	.0570	-1.4650	-.7750	-.4490	-.2600	-.1690	-.1010
120.000	1.0220		.3480	-.0850	-.2260	-.2200	-.0760	.0490	.1710	-.0460	-.0630	-.0590	-.0550	-.0380	-.0160
135.000	1.0220							.0330		.0230		-.0640		-.0420	
150.000	1.0220		.4650	.0230	-.1650	-.1770	-.0650	.0270	.1120	.0490	-.0590	-.0630	-.0730	-.0550	-.0160
165.000	1.0220			.0480	-.1480	-.1580	-.0770	.0370	.1340	.0890	-.0450		-.0750		-.0150
180.000	1.0220	1.0900	.5120	.0560	-.1420	-.1570	-.0750	.0410	.1430	.0900	-.0420	-.0590	-.0690	-.0550	-.0130
270.000	1.0220	.9000													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0550	-.1120	-.4110
30.000	-.0570	-.1140	-.4110
60.000	-.0860	-.1150	-.4150
90.000			-.4730
120.000	.0190	-.1780	-.4260
135.000	.0170	-.1950	-.4270
150.000	.0140	-.2300	-.3830
165.000		-.3440	-.2320
180.000	.0350		

MACH (1) = .598 ALPHAT(2) = -8.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0570	.7970	.0970	-.3000	-.3920	-.3570	-.2560	-.1470	-.0950	-.0940	-.0730	-.0530	-.0550	-.0450	-.0200
30.000	1.0570		.1110	-.3160	-.3880	-.3600	-.2550	-.1430	-.1140	-.1300	-.0770	-.0630	-.0550	-.0530	-.0300
60.000	1.0570		.1670	-.2530	-.3400	-.3200	-.2080	-.1060	-.1720	-.4080	-.1550	-.0990	-.1050	-.0620	-.0720
90.000	1.0570	.9300	.2470	-.1810	-.2760	-.2460	-.0780	.0700	.1300	-1.2890	-.5450	-.3880	-.2640	-.1840	-.1020
120.000	1.0570		.3340	-.0930	-.2330	-.2160	-.0720	.0620	.1520	-.0700	-.0640	-.0640	-.0380	-.0340	-.0090
135.000	1.0570							.0320		.0120		-.0670		-.0380	
150.000	1.0570		.4220	-.0170	-.1970	-.2000	-.0900	.0190	.1060	.0460	-.0390	-.0680	-.0780	-.0490	-.0100

AMES 11-737 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTO1)

MACH (1) = .598 ALPHAT(2) = -6.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.0570			.0010	-.1880	-.1920	-.0930	.0210	.1200	.0850	-.0330		-.0790		-.0100
180.000	1.0570	1.0770	.4580	.0040	-.1820	-.1870	-.0990	.0220	.1320	.0860	-.0330	-.0640	-.0740	-.0490	-.0100
270.000	1.0570	.9510													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0470	-.0970	-.3270
30.000	-.0470	-.0970	-.3110
60.000	-.0990	-.1000	-.3460
90.000			-.4400
120.000	.0320	-.1900	-.4240
135.000	.0310	-.1720	-.4250
150.000	.0290	-.2110	-.3970
165.000		-.3280	-.2520
180.000	.0450		

MACH (1) = .597 ALPHAT(3) = -4.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0780	.8630	.1550	-.2580	-.3710	-.3510	-.2400	-.1340	-.0850	-.0860	-.0650	-.0510	-.0490	-.0410	-.0190
30.000	1.0780		.1680	-.2720	-.3840	-.3390	-.2360	-.1280	-.0930	-.1190	-.0660	-.0720	-.0440	-.0430	-.0470
60.000	1.0780		.2030	-.2160	-.3170	-.2880	-.1770	-.0640	-.1120	-.3480	-.1290	-.0730	-.0720	-.0700	-.0450
90.000	1.0780	.9500	.2630	-.1640	-.2650	-.2260	-.0600	.0870	.1770	-1.2120	-.3620	-.2790	-.2280	-.1660	-.1010
120.000	1.0780		.3180	-.1070	-.2350	-.2100	-.0690	.0530	.1250	-.1180	-.0860	-.0710	-.0650	-.0390	-.0130
135.000	1.0780							.0230		-.0160		-.0660		-.0430	
150.000	1.0780		.3780	-.0550	-.2280	-.2130	-.1050	.0030	.0800	.0220	-.0610	-.0730	-.0780	-.0990	-.0120
165.000	1.0780			-.0470	-.2220	-.2130	-.1060	-.0020	.1030	.0640	-.0540		-.0860		-.0110
180.000	1.0780	1.0480	.4050	-.0480	-.2200	-.2130	-.1040	.0020	.1170	.0640	-.0510	-.0630	-.0760	-.0560	-.0110
270.000	1.0780	.9510													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0490	-.0910	-.3160
30.000	-.0480	-.0900	-.3270
60.000	-.0680	-.1140	-.3470
90.000			-.4120
120.000	.0380	-.1280	-.4040
135.000	.0380	-.1430	-.4220
150.000	.0430	-.1870	-.3930

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTD1)

MACH (1) = .397 ALPHAT(3) = -4.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.2940	-.2530
180.000	.0580		

MACH (1) = .399 ALPHAT(4) = -2.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0900	.9220	.2190	-.2130	-.3530	-.3280	-.2230	-.1150	-.0670	-.0730	-.0510	-.0490	-.0340	-.0320	-.0090
30.000	1.0900		.2230	-.2300	-.3450	-.3150	-.2110	-.1050	-.0710	-.0950	-.0520	-.0500	-.0330	-.0290	-.0310
60.000	1.0900		.2440	-.1880	-.2950	-.2550	-.1420	-.0280	-.0520	-.2970	-.1210	-.0510	-.0410	-.0340	-.0360
90.000	1.0900	.9840	.2800	-.1520	-.2550	-.2070	-.0400	.1130	.2150	-1.1890	-.2270	-.1500	-.1340	-.1090	-.0790
120.000	1.0900		.2990	-.1250	-.2410	-.2050	-.0670	.0540	.1020	-.1400	-.0810	-.0590	-.0540	-.0380	-.0100
135.000	1.0900							.0160		-.0270		-.0600		-.0430	
150.000	1.0900		.3370	-.0940	-.2450	-.2190	-.1100	-.0010	.0750	.0200	-.0490	-.0620	-.0670	-.0540	-.0080
165.000	1.0900			-.0980	-.2480	-.2180	-.1100	-.0090	.0950	.0680	-.0490		-.0730		-.0010
180.000	1.0900	1.0180	.3460	-.1000	-.2480	-.2190	-.1150	-.0070	.1050	.0680	-.0490	-.0540	-.0660	-.0510	-.0010
270.000	1.0900	.9650													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0380	-.0800	-.3210
30.000	-.0390	-.0760	-.2970
60.000	-.0620	-.0900	-.3200
90.000			-.3700
120.000	.0490	-.0990	-.3970
135.000	.0490	-.1110	-.4000
150.000	.0650	-.1530	-.3810
165.000		-.2650	-.2490
180.000	.0770		

MACH (1) = .597 ALPHAT(5) = -.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.0930	.9740	.2790	-.1680	-.3230	-.3120	-.2230	-.1130	-.0590	-.0630	-.0590	-.0460	-.0370	-.0330	-.0110
30.000	1.0930		.2790	-.1740	-.3220	-.3000	-.2070	-.0910	-.0350	-.0830	-.0800	-.0500	-.0330	-.0320	-.0390
60.000	1.0930		.2740	-.1630	-.2810	-.2490	-.1320	-.0090	-.0120	-.2540	-.1130	-.0510	-.0410	-.0300	-.0300
90.000	1.0930	.9600	.2760	-.1490	-.2470	-.2090	-.0410	.1140	.2250	-1.1670	-.1150	-.0690	-.0590	-.0420	-.0290
120.000	1.0930		.2700	-.1460	-.2580	-.2270	-.0900	.0320	.0710	-.1720	-.0850	-.0600	-.0580	-.0390	-.0140
135.000	1.0930							-.0050		-.0420		-.0610		-.0410	
150.000	1.0930		.2870	-.1370	-.2710	-.2460	-.1320	-.0190	.0590	.0110	-.0520	-.0580	-.0690	-.0580	-.0390
165.000	1.0930			-.1470	-.2740	-.2520	-.1330	-.0230	.0780	.0390	-.0470		-.0710		-.0025
180.000	1.0930	.9780	.2930	-.1510	-.2780	-.2530	-.1440	-.0260	.0990	.0590	-.0460	-.0550	-.0650	-.0490	.0025
270.000	1.0930	.9720													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0370	-.0760	-.3030
30.000	-.0370	-.0710	-.3380
60.000	-.0390	-.0750	-.3020
90.000			-.3570
120.000	.0480	-.0780	-.3710
135.000	.0470	-.0910	-.3690
150.000	.0880	-.1383	-.3810
165.000		-.2410	-.2330
180.000	.0780		

MACH (1) = .598 ALPHAT(6) = 1.960

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.0910	1.0140	.3350	-.1170	-.2970	-.2840	-.1930	-.0880	-.0470	-.0510	-.0460	-.0360	-.0320	-.0280	.0050
30.000	1.0910		.3240	-.1280	-.2980	-.2760	-.1780	-.0690	-.0330	-.0680	-.0480	-.0400	-.0300	-.0280	-.0220
60.000	1.0910		.3040	-.1370	-.2640	-.2240	-.1110	.0100	.0280	-.2180	-.0960	-.0410	-.0360	-.0280	-.0190
90.000	1.0910	.9650	.2780	-.1560	-.2460	-.1990	-.0380	.1120	.2220	-1.0980	-.1170	-.0480	-.0430	-.0430	-.0180
120.000	1.0910		.2460	-.1680	-.2660	-.2290	-.0990	.0090	.0300	-.1960	-.0770	-.0580	-.0530	-.0290	.0000
135.000	1.0910							-.0180		-.0490		-.0550		-.0300	
150.000	1.0910		.2330	-.1770	-.2950	-.2600	-.1440	-.0350	.0410	.0130	-.0450	-.0570	-.0590	-.0420	.0080
165.000	1.0910			-.1900	-.3010	-.2600	-.1460	-.0350	.0660	.0670	-.0380		-.0660		.0140
180.000	1.0910	.9250	.2300	-.1900	-.2990	-.2690	-.1470	-.0380	.0840	.0670	-.0400	-.0430	-.0580	-.0400	.0140
270.000	1.0910	.9700													

X/LT	.7449	.8528	.9290
PHI			

ANES 11-737 IA9 O2A + S3 + T9 EXTERNAL TANK (RBNTD1)

MACH (1) = .398 ALPHAT(6) = 1.960

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0240	-.0390	-.2980
30.000	-.0240	-.0580	-.2750
60.000	-.0210	-.0520	-.2800
90.000			-.3540
120.000	.0410	-.0310	-.3160
135.000	.0420	-.0600	-.3640
150.000	.0740	-.1000	-.3680
165.000		-.2140	-.2550
180.000	.0980		

MACH (1) = .397 ALPHAT(7) = 3.930

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0780	1.0480	.3930	-.0600	-.2530	-.2570	-.1760	-.0720	-.0270	-.0310	-.0370	-.0220	-.0240	-.0180	.0130
30.000	1.0760		.3690	-.0820	-.2610	-.2580	-.1630	-.0470	-.0100	-.0410	-.0370	-.0250	-.0250	-.0200	-.0210
60.000	1.0760		.3190	-.1110	-.2440	-.2260	-.0980	.0310	.0710	-.1740	-.0810	-.0260	-.0300	-.0160	-.0110
90.000	1.0760	.9500	.2670	-.1510	-.2470	-.2100	-.0430	.1020	.2100	-1.1180	-.1440	-.0970	-.0810	-.0760	-.0410
120.000	1.0760		.2110	-.1880	-.2830	-.2500	-.1120	-.0140	-.0040	-.2230	-.0600	-.0560	-.0470	-.0330	.0020
135.000	1.0760							-.0300		-.0640		-.0500		-.0310	
150.000	1.0760		.1840	-.2050	-.3080	-.2790	-.1530	-.0460	.0370	.0090	-.0340	-.0450	-.0510	-.0310	.0190
165.000	1.0760			-.2220	-.3130	-.2800	-.1540	-.0450	.0620	.0630	-.0280		-.0550		.0190
180.000	1.0760	.8850	.1750	-.2300	-.3190	-.2840	-.1540	-.0450	.0780	.0880	-.0240	-.0370	-.0460	-.0300	.0200
270.000	1.0760	.9590													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0160	-.0520	-.2850
30.000	-.0150	-.0480	-.2630
60.000	.0100	-.0430	-.2510
90.000			-.2960
120.000	.0410	-.0390	-.3000
135.000	.0410	-.0370	-.3500
150.000	.0870	-.0750	-.3580
165.000		-.1790	-.2500
180.000	.1110		

AMES 11-7DT IA9 OEA + 33 + T9 EXTERNAL TANK (RBNTD1)

MACH (1) = .600 ALPHAT(8) = 5.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0340	1.0790	.4440	-.0140	-.2250	-.2300	-.1480	-.0510	-.0030	-.0090	.0020	-.0100	-.0020	-.0040	.0320
30.000	1.0340		.4130	-.0440	-.2400	-.2310	-.1420	-.0320	.0130	-.0170	.0000	-.0140	-.0060	-.0090	.0030
60.000	1.0340		.3380	-.1000	-.2390	-.2130	-.0920	.0340	.1080	-.1380	-.0670	-.0150	-.0180	-.0050	.0080
90.000	1.0340	.9320	.2490	-.1710	-.2570	-.2090	-.0590	.0910	.1790	-1.1070	-.2860	-.1970	-.1680	-.1480	-.0730
120.000	1.0340		.1660	-.2270	-.3050	-.2810	-.1290	-.0320	-.0530	-.2510	-.0860	-.0530	-.0460	-.0310	-.0020
135.000	1.0340							-.0510		-.0760		-.0440		-.0170	
150.000	1.0340		.1270	-.2570	-.3260	-.2900	-.1660	-.0530	.0240	.0120	-.0320	-.0320	-.0420	-.0170	.0310
165.000	1.0340			-.2710	-.3270	-.2920	-.1660	-.0510	.0580	.0690	-.0330		-.0400		.0350
180.000	1.0340	.8020	.1150	-.2780	-.3300	-.2920	-.1650	-.0450	.0750	.0980	-.0130	-.0210	-.0320	-.0150	.0370
270.000	1.0340	.9390													

X/LT	.7449	.8328	.9290
PHI			
.000	.0380	-.0330	-.2850
30.000	.0080	-.0320	-.2480
0.000	.0350	-.0300	-.2300
90.000			-.2740
120.000	.0350	.0000	-.2850
135.000	.0390	.0000	-.3290
150.000	.1090	-.0470	-.3590
165.000		-.1560	-.2570
180.000	.1260		

MACH (1) = .999 ALPHAT(9) = 7.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0220	1.0860	.5050	.0400	-.1900	-.1960	-.1190	-.0280	.0220	.0210	.0130	.0010	.0130	.0090	.0450
30.000	1.0220		.4590	-.0010	-.2110	-.2090	-.1240	-.0110	.0340	.0070	.0110	-.0010	.0120	.0030	.0080
60.000	1.0220		.3470	-.0890	-.2400	-.2030	-.0930	.0440	.1380	-.0850	-.0480	-.0020	.0000	.0050	.0190
90.000	1.0220	.9010	.2250	-.1860	-.2790	-.2270	-.0795	.0680	.1280	-1.3070	-.4530	-.2890	-.2210	-.1750	-.0820
120.000	1.0220		.1170	-.2700	-.3380	-.3010	-.1570	-.0710	-.1070	-.2800	-.0940	-.0580	-.0730	-.0190	.0310
135.000	1.0220							-.0690		-.0820		-.0360		-.0160	
150.000	1.0220		.0720	-.2970	-.3500	-.2970	-.1790	-.0640	.0120	.0140	-.0260	-.0230	-.0350	-.0150	.0310
165.000	1.0220			-.3100	-.3550	-.3000	-.1700	-.0560	.0550	.0700	-.0200		-.0300		.0440
180.000	1.0220	.7270	.0570	-.3220	-.3490	-.3000	-.1730	-.0520	.0680	.1020	-.0010	-.0100	-.0210	.0000	.0470
270.000	1.0220	.9090													

X/LT	.7449	.8328	.9290
PHI			

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTD1)

MACH (1) = .599 ALPHAT(9) = 7.950

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE C_P

X/LT	.7449	.8528	.9290
PHI			
.000	.0270	-.0170	-.2720
30.000	.0190	-.0100	-.2580
60.000	.0460	-.0110	-.2050
90.000			-.2800
120.000	.0790	.0340	-.2550
135.000	.0800	.0180	-.3110
150.000	.1240	-.0220	-.3360
165.000		-.1300	-.2500
180.000	.1440		

MACH (2) = .905 ALPHAT(1) = -8.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1610	.8810	.1700	-.3110	-.6390	-.5780	-.1190	-.0270	-.0240	-.1820	-.3920	-.0800	-.0370	-.0210	.0020
30.000	1.1610		.1820	-.3410	-.6350	-.5890	-.1110	-.0220	-.0440	-.2650	-.4250	-.1170	-.0480	-.0340	-.0280
60.000	1.1610		.2410	-.2620	-.5760	-.4840	-.0900	.0080	-.0800	-.5740	-.6140	-.2650	-.0620	-.0360	-.0230
90.000	1.1610	1.0360	.3420	-.1680	-.4940	-.2860	-.0010	.1740	.2820	-1.0650	-.7020	-.6760	-.2130	-.0780	-.0230
120.000	1.1610		.4560	-.0460	-.3750	-.3300	-.0200	.1540	.3210	-.0480	-.0940	-.1150	-.1740	-.0660	.0220
135.000	1.1610							.1180		.0670		-.1140		-.0740	
150.000	1.1610		.5640	.0580	-.2900	-.2760	-.0150	.1100	.2390	.1240	-.0690	-.1010	-.2430	-.0820	.0210
165.000	1.1610			.0800	-.2700	-.2560	-.0150	.1090	.2500	.1960	-.0470		-.2430		.0210
180.000	1.1610	1.2080	.6060	.0930	-.2520	-.2500	-.0340	.1090	.2580	.2370	-.0440	-.0840	-.2320	-.0980	.0240
270.000	1.1610	1.0350													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0380	-.1020	-.3270
30.000	-.0400	-.1030	-.3270
60.000	-.0480	-.1210	-.3060
90.000			-.3770
120.000	.1010	-.1450	-.3400
135.000	.1010	-.1840	-.3250
150.000	.0980	-.2500	-.3150
165.000		-.4740	-.2380
180.000	.1180		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT01)

MACH (2) = .999 ALPHAT(2) = -5.960

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0005	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1920	.9300	.2250	-.2680	-.5950	-.6540	-.1210	-.0140	-.0120	-.1660	-.4210	-.0750	-.0410	-.0240	.0000
30.000	1.1920		.2370	-.2840	-.5940	-.5490	-.1090	-.0030	-.0170	-.2370	-.4650	-.1080	-.0430	-.0290	-.0370
60.000	1.1920		.2860	-.2180	-.5520	-.4970	-.0650	.0500	-.0080	-.5230	-.5830	-.2120	-.0550	-.0290	-.0240
90.000	1.1920	1.0860	.3650	-.1410	-.4860	-.2	.0200	.1990	.3330	-1.0330	-.6100	-.3410	-.1960	-.0680	-.0200
120.000	1.1920		.4500	-.0530	-.4170	-.35..	-.0120	.1600	.3030	-.0830	-.0820	-.1090	-.1750	-.0770	.0100
135.000	1.1920							.1150		.0450		-.1070		-.0900	
150.000	1.1920		.5260	.0200	-.3500	-.3440	-.0410	.0980	.2270	.1110	-.0820	-.0990	-.2300	-.1210	.0100
165.000	1.1920			.0340	-.3270	-.3320	-.0440	.0920	.2340	.1840	-.0600		-.2300		.0180
180.000	1.1920	1.1960	.5560	.0410	-.3240	-.3290	-.0540	.0990	.2410	.2260	-.0830	-.0840	-.2240	-.1290	.0210
270.000	1.1920	1.0680													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0380	-.0930	-.3230
30.000	-.0370	-.0950	-.3200
60.000	-.0390	-.1070	-.2970
90.000			-.3590
120.000	.1010	-.1210	-.3290
135.000	.1020	-.1310	-.3170
150.000	.1030	-.2850	-.3090
165.000		-.4670	-.2360
180.000	.1240		

MACH (2) = .898 ALPHAT(3) = -4.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2110	1.0070	.2820	-.2200	-.5390	-.6250	-.1050	-.0030	.0050	-.1480	-.4080	-.0860	-.0340	-.0220	.0050
30.000	1.2110		.2890	-.2410	-.5590	-.6200	-.0960	.0120	.0120	-.2050	-.4440	-.0790	-.0330	-.0210	-.0240
60.000	1.2110		.3240	-.1870	-.5280	-.4750	-.0460	.0810	.0650	-.4600	-.5190	-.1590	-.0340	-.0270	-.0200
90.000	1.2110	1.0840	.3800	-.1350	-.4740	-.2940	.0470	.2230	.3770	-1.0040	-.5110	-.3990	-.1600	-.0680	-.0200
120.000	1.2110		.4340	-.0750	-.4270	-.3290	.0030	.1630	.2890	-.1260	-.0750	-.0960	-.1410	-.0950	.0040
135.000	1.2110							.1180		.0200		-.0850		-.1100	
150.000	1.2110		.4870	-.0230	-.3980	-.3520	-.0490	.0990	.2200	.0980	-.1300	-.0760	-.1920	-.1370	.0180
165.000	1.2110			-.0210	-.3960	-.3550	-.0690	.0980	.2270	.1730	-.1670		-.1990		.0180
180.000	1.2110	1.1750	.5080	-.0190	-.3810	-.3940	-.0670	.0820	.2330	.2160	-.2630	-.0650	-.1920	-.1380	.0250
270.000	1.2110	1.0880													

X/LT	.7449	.8526	.9290
PHI			

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AMES 11-FT NAS DRA + S3 + T9 EXTERNAL TANK (RUN T01)

MACH (2) = .898 ALPHA(3) = -8.700

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L= .7449 .8528 .9290

PHI

.000	-.0208	-.2140	-.2850
30.000	-.1298	-.1087	-.2780
60.000	-.1208	-.1082	-.2840
90.000			-.3950
120.000	.1010	-.0780	-.3440
150.000	.1010	-.0990	-.2980
180.000	.1130	-.1780	-.2930
210.000		-.0440	-.3220
240.000	.1360		

MACH (2) = .900 ALPHA(4) = -1.980

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L= .0000 .0370 .0632 .1190 .1744 .1919 .2121 .2730 .3814 .5412 .7019 .8489 .9287 1.0301 1.0379

PHI

.000	1.2221	1.2800	.3235	-.1882	-.3295	-.0648	-.2131	.2111	.2148	-.1567	-.1160	-.0825	-.0295	.0260	.0304
30.000	1.2221		.3340	-.2777	-.1933	-.0127	.1187	.1298	.1251	-.0169	.1444	.0650	-.0295	.0284	.0275
60.000	1.2221		.3359	-.1693	-.3127	-.1844	-.0119	.1668	.1116	-.0169	.0468	.0779	-.0295	.0111	-.0446
90.000	1.2221	1.2800	.3699	-.1299	-.0997	-.2799	.0178	.2234	.1649	.0428	.0196	.0119	-.0295	.0	.0
120.000	1.2221		.4187	-.1999	-.0119	-.2199	.1187	.1187	.1187	.0119	.0	.0119	.0119	.0468	.0111
150.000	1.2221							.1187		.0119	.0119	.0119	.0119	.0119	
180.000	1.2221		.4481	-.1199	.0119	.0119	.0119	.0119	.0119	.0119	.0119	.0119	.0119	.0119	.0119
210.000	1.2221			-.1199	.0119	.0119	.0119	.0119	.0119	.0119	.0119	.0119	.0119	.0119	.0119
240.000	1.2221	1.2681	.4481	-.1199	.0119	.0119	.0119	.0119	.0119	.0119	.0119	.0119	.0119	.0119	.0119
270.000	1.2221	1.2800													

X/L= .7449 .8528 .9290

PHI

.000	-.1258	-.1087	-.2887
30.000	-.1208	-.1038	-.2837
60.000	-.1258	-.1138	-.2737
90.000			-.3237
120.000	.1060	-.0818	-.2887
150.000	.1110	-.0968	-.2887
180.000	.1121	-.1259	-.2887
210.000		-.0	-.2237
240.000	.1859		

[illegible] TABULATED PRESSURE DATA - [illegible]

[illegible] EXTERNAL TAPS

[illegible] DEPENDENT VARIABLE [illegible]

[illegible]	[illegible]	[illegible]	[illegible]
PHI			
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		

[illegible] [illegible] [illegible] [illegible]

[illegible] EXTERNAL TAPS

[illegible] DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PHI														
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]						[illegible]		[illegible]		[illegible]		[illegible]	
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]												

[illegible]	[illegible]	[illegible]	[illegible]
PHI			
.000	.0020	-.0210	-.1940
30.000	.0010	-.0100	-.2075
60.000	.0090	-.0140	-.2310
90.000			-.3380
120.000	.0940	.0370	-.2350
135.000	.1110	.0280	-.2440
150.000	.1400	-.0280	-.2460
165.000		-.2170	-.2110
180.000	.1640		

MACH (2) = .901 ALPHAT(8) = 8.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1930	1.1930	.5630	.0450	-.3560	-.4350	-.1100	.0190	.0630	-.0420	-.0920	-.0130	.0000	.0000	.0340
30.000	1.1950		.5310	-.0150	-.3920	-.4510	-.0930	.0450	.1010	-.0580	-.1170	-.0140	-.0010	-.0050	.0110
60.000	1.1950		.4550	-.0720	-.4350	-.4940	-.0260	.1360	.2490	-.1850	-.0380	-.0140	-.0020	-.0070	.0120
90.000	1.1950	1.0890	.3760	-.1490	-.4870	-.4560	.0340	.2000	.3450	-1.0540	-.3480	-.1380	-.0490	-.0650	-.0120
120.000	1.1950		.2890	-.2150	-.5600	-.3870	-.0320	.0740	.0850	-.3950	-.2720	-.1000	-.0450	-.0710	.0100
135.000	1.1950							.0520		-.1260		-.0640		-.0740	
150.000	1.1950		.2460	-.2490	-.5880	-.4020	-.0570	.0460	.1240	.0250	-.1060	-.0490	-.0780	-.0900	.0470
165.000	1.1950			-.2660	-.5810	-.3900	-.0570	.0460	.1500	.1290	-.0830		-.0790		.0550
180.000	1.1950	.9500	.2350	-.2750	-.6010	-.3820	-.0600	.0460	.1610	.1770	-.0830	-.0260	-.0790	-.0910	.0550
270.000	1.1950	1.0800													

X/LT	.7445	.8526	.9290
PHI			
.000	.0230	-.0030	-.1700
30.000	.0220	.0080	-.1880
60.000	.0340	.0030	-.2240
90.000			-.3200
120.000	.1180	.0890	-.2380
135.000	.1320	.0550	-.2230
150.000	.1490	.0030	-.2240
165.000		-.1580	-.2040
180.000	.1790		

MACH (2) = .902 ALPHAT(9) = 8.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1680	1.2210	.6140	.0890	-.2870	-.3760	-.1150	.0260	.0820	-.0090	-.0480	-.0070	.0140	.0170	.0510
30.000	1.1680		.5710	.0450	-.3310	-.4160	-.1000	.0460	.1190	-.0230	-.0640	-.0090	.0160	.0110	.0100
60.000	1.1680		.4650	-.0440	-.4110	-.4730	-.0410	.1290	.2720	-.1430	-.0300	-.0170	.0090	.0040	.0270
90.000	1.1680	1.0440	.3480	-.1590	-.5070	-.4725	.0210	.1820	.2930	-1.0950	-.3800	-.2150	-.0950	-.0990	-.0280
120.000	1.1680		.2290	-.2440	-.5670	-.3190	-.0590	.0420	.0230	-.4490	-.3240	-.0940	-.0250	-.0420	.0190
135.000	1.1680							.0300		-.1540		-.0600		-.0430	
150.000	1.1680		.1880	-.2890	-.6190	-.3890	-.0670	.0310	.0990	.0190	-.1100	-.0460	-.0480	-.0510	.0580
165.000	1.1680			-.3110	-.6200	-.3570	-.0670	.0330	.1370	.1230	-.0790		-.0520		.0710
180.000	1.1680	.8800	.1710	-.3190	-.6280	-.3300	-.0710	.0360	.1490	.1720	-.0790	-.0220	-.0490	-.0580	.0730
270.000	1.1680	1.0510													

X/LT	.7449	.8326	.9290
PHI			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

DATE 24 SEP 73 TABULATED PRESSURE DATA - NASA

AMES 11-7D7 1A9 CEA + S3 + T9 EXTERNAL TANK (RBNTD1)

MACH (2) = .902 ALPHAT(9) = 8.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	.0420	.0210	-.1500
30.000	.0410	.0280	-.1640
60.000	.0600	.0260	-.2140
90.000			-.3100
120.000	.1250	.0920	-.2150
135.000	.1390	.0830	-.2060
150.000	.1760	.0280	-.2180
165.000		-.1330	-.2050
180.000	.2050		

MACH (2) = .901 ALPHAT(10) = 10.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1270	1.2230	.6630	.1450	-.2460	-.3190	-.1140	.0360	.1050	.0320	-.0090	.0090	.0230	.0310	.0870
30.000	1.1270		.6090	.0900	-.2910	-.3700	-.0790	.0540	.1380	.0210	-.0360	.0010	.0180	.0220	.0180
60.000	1.1270		.4720	-.0410	-.3940	-.4750	-.0620	.1290	.2990	-.0930	-.0420	-.0070	.0120	.0220	.0310
90.000	1.1270	1.0070	.3240	-.1800	-.5380	-.5630	-.0030	.1540	.2360	-1.0490	-.5120	-.3170	-.1330	-.1130	-.0490
120.000	1.1270		.1950	-.2880	-.6130	-.4360	-.0900	.0010	-.0360	-.3670	-.3990	-.0950	-.0210	-.0310	.0220
135.000	1.1270							.0000		-.1310		-.0710		-.0320	
150.000	1.1270		.1330	-.3410	-.6510	-.3240	-.0920	.0070	.0830	.0260	-.1350	-.0490	-.0390	-.0390	.0830
165.000	1.1270			-.3600	-.6580	-.2870	-.0820	.0180	.1300	.1230	-.0740		-.0310		.0740
180.000	1.1270	.8070	.1160	-.3710	-.6700	-.2740	-.0790	.0230	.1460	.1730	-.0730	-.0120	-.0240	-.0360	.0800
270.000	1.1270	1.0180													

X/LT	.7449	.8526	.9290
PHI			
.000	.0560	.0350	-.1340
30.000	.0580	.0400	-.1540
60.000	.0780	.0410	-.2010
90.000			-.2950
120.000	.1280	.0940	-.2060
135.000	.1500	.0900	-.1970
150.000	.1770	.0330	-.2080
165.000		-.1260	-.2000
180.000	.2100		

MACH (3) = 1.104 ALPHAT(1) = -8.010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2910	1.0360	.3730	-.0750	-.3740	-.4400	-.5150	-.1330	.0310	.1010	-.0970	-.3210	-.0180	.0320	.0130
30.000	1.2910		.3870	-.0820	-.3770	-.4340	-.5170	-.1700	.0140	.0300	-.2820	-.1800	-.0350	.0050	-.0730
60.000	1.2910		.4380	-.0180	-.3400	-.4110	-.4970	-.1080	.1010	-.3010	-.4140	-.1780	-.1420	-.1430	-.0450
90.000	1.2910	1.1760	.5280	.0630	-.2770	-.3610	-.4520	.0140	.4520	-.5520	-.4690	-.4220	-.0460	-.0950	-.0980
120.000	1.2910		.6290	.1600	-.1990	-.2870	-.3900	.1110	.5210	.2390	-.0020	.1300	.0390	-.0920	-.2680
135.000	1.2910							-.0980		.3230		.1490		-.1000	
150.000	1.2910		.7260	.2470	-.1310	-.2220	-.3160	-.2500	.4590	.3720	-.1410	.1610	.0350	-.1220	-.2800
165.000	1.2910			.2690	-.1110	-.2030	-.3040	-.2280	.4700	.4350	-.1850		.0370		-.2890
180.000	1.2910	1.3320	.7620	.2730	-.1100	-.1950	-.2970	-.2250	.4770	.4730	-.2120	.1870	.0490	-.1350	-.2820
270.000	1.2910	1.1760													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0420	.0050	-.0910
30.000	-.0430	-.0060	-.0910
60.000	-.0180	-.0020	-.0870
90.000			-.1710
120.000	.1200	.0390	-.2220
135.000	.1320	.0280	-.2220
150.000	.1900	-.0080	-.2370
165.000		-.1560	-.2580
180.000	.1790		

MACH (3) = 1.101 ALPHAT(2) = -5.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3130	1.0930	.4240	-.0290	-.3490	-.4160	-.4950	-.2580	.0530	.1140	-.0830	-.3350	-.0180	.0340	.0210
30.000	1.3130		.4330	-.0410	-.3470	-.4140	-.4950	-.2930	.0380	.0810	-.2410	-.1830	-.0380	.0320	-.0680
60.000	1.3130		.4740	.0090	-.3190	-.3900	-.4770	-.0960	.1240	-.2060	-.3000	-.0860	-.0410	-.0240	-.0800
90.000	1.3130	1.1990	.5430	.0740	-.2730	-.3510	-.4380	.0180	.3180	-.5490	-.4860	-.4170	-.1910	-.1520	-.0920
120.000	1.3130		.6190	.1480	-.2140	-.2940	-.3860	-.0620	.5090	.2110	-.0500	.1470	.0480	-.0940	-.2550
135.000	1.3130							-.3020		.3060		.1540		-.0970	
150.000	1.3130		.6880	.2080	-.1670	-.2500	-.3420	-.2840	.4450	.3620	-.1540	.1740	.0500	-.1210	-.2780
165.000	1.3130			.2210	-.1510	-.2420	-.3280	-.2770	.4560	.4260	-.1810		.0550		-.2900
180.000	1.3130	1.3130	.7140	.2230	-.1520	-.2340	-.3280	-.2720	.4530	.4630	-.2040	.2010	.0830	-.1250	-.2550
270.000	1.3130	1.1980													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT01)

MACH (3) = 1.101 ALPHAT(2) = -5.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0580	.0070	-.0730
30.000	-.0580	.0060	-.0810
60.000	-.0580	-.0020	-.0800
90.000			-.1510
120.000	.1350	.0570	-.1880
135.000	.1470	.0450	-.1800
150.000	.1700	.0090	-.1990
165.000		-.1440	-.2190
180.000	.1900		

MACH (3) = 1.104 ALPHAT(3) = -3.980

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3290	1.1430	.4710	.0110	-.3240	-.3890	-.4680	-.4080	.0810	.1260	-.0720	-.3170	-.0350	.0580	.0280
30.000	1.3290		.4780	.0010	-.3220	-.3890	-.4680	-.4040	.0700	.0990	-.2270	-.2150	-.0330	.0420	-.0590
60.000	1.3290		.5090	.0360	-.2980	-.3690	-.4560	-.1830	.2230	-.1470	-.4780	-.0390	-.0230	-.0200	-.0460
90.000	1.3290	1.2130	.5150	.0810	-.2670	-.3420	-.4340	.0490	.5340	-.5280	-.3660	-.4360	-.2730	-.2030	-.1040
120.000	1.3290		.6020	.1300	-.2260	-.3020	-.3950	.0680	.3490	.1890	-.1630	.1340	.0550	-.0820	-.2430
135.000	1.3290							.0630		.2920		.1310		-.0830	
150.000	1.3290		.6480	.1720	-.2000	-.2770	-.3700	-.1220	.2930	.3450	-.1590	.1510	.0550	-.1190	-.2600
165.000	1.3290			.1740	-.1890	-.2730	-.3590	-.3070	.3210	.4140	-.1790		.0590		-.2670
180.000	1.3290	1.2930	.6680	.1720	-.1910	-.2680	-.3620	-.3070	.3260	.4580	-.1790	.1720	.0710	-.1090	-.2470
270.000	1.3290	1.2160													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0580	-.0120	-.0680
30.000	-.0580	-.0120	-.0550
60.000	-.0480	-.0290	-.1130
90.000			-.1520
120.000	.1480	.0600	-.1510
135.000	.1570	.0530	-.1590
150.000	.1750	.0150	-.1720
165.000		-.1460	-.1960
180.000	.1980		

MACH (3) = 1.102 ALPHAT(4) = -2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3390	1.1900	.3230	.0570	-.2930	-.3670	-.4500	-.3930	.1170	.1310	-.0600	-.3000	-.0430	.0340	.0350
30.000	1.3390		.5230	.0380	-.2970	-.3670	-.4550	-.3910	.0950	.1070	-.1910	-.2060	-.0420	.0480	-.0490
60.000	1.3390		.5390	.0580	-.2800	-.3530	-.4450	-.1600	.2920	-.0910	-.4630	-.0240	-.0130	.0100	-.0330
90.000	1.3390	1.2230	.5640	.0840	-.2630	-.3470	-.4360	.0080	.5340	-.3140	-.3870	-.0910	-.2520	-.2090	-.0990
120.000	1.3390		.5850	.1090	-.2440	-.3240	-.4130	.0290	.3810	.1270	-.2600	.1390	.0740	-.0820	-.2400
135.000	1.3390							.0180		.2750		.1230		-.0620	
150.000	1.3390		.6070	.1310	-.2360	-.3090	-.3960	.0050	.2260	.3330	-.1550	.1030	.0740	-.0910	-.2390
165.000	1.3390			.1290	-.2300	-.3080	-.3940	-.0270	.2280	.3790	-.1540		.0800		-.2310
180.000	1.3390	1.2860	.6190	.1230	-.2310	-.3060	-.3950	-.0790	.2280	.4250	-.1540	-.0490	.0920	-.0800	-.2310
270.000	1.3390	1.2270													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0520	-.0340	-.0610
30.000	-.0520	-.0300	-.0340
60.000	-.0520	-.0380	-.1080
90.000			-.1440
120.000	.1520	.0730	-.1170
135.000	.1520	.0630	-.1190
150.000	.1780	.0200	-.1360
165.000		-.1460	-.1710
180.000	.1970		

MACH (3) = 1.102 ALPHAT(5) = .000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3400	1.2310	.5870	.0960	-.2520	-.3340	-.4190	-.3640	.1650	.1750	-.0460	-.2730	-.0580	.0450	.0440
30.000	1.3400		.5630	.0820	-.2600	-.3360	-.4210	-.3630	.1550	.1620	-.1720	-.1870	-.0570	.0400	-.0500
60.000	1.3400		.5810	.0900	-.2550	-.3320	-.4260	-.1190	.2760	-.0120	-.4960	-.0160	-.0200	.0200	-.0130
90.000	1.3400	1.2230	.5680	.0910	-.2540	-.3390	-.4270	.0370	.5600	-.4980	-.4260	.0140	-.0410	-.1150	-.0880
120.000	1.3400		.5800	.0940	-.2580	-.3350	-.4210	.0130	.3780	.0640	-.3310	.1450	.0960	-.0380	-.2160
135.000	1.3400							.0000		.2290		.1410		-.0380	
150.000	1.3400		.5840	.0990	-.2610	-.3360	-.4190	.0010	.1790	.3050	-.1540	.0680	.0940	-.0440	-.2160
165.000	1.3400			.0930	-.2570	-.3370	-.4180	.0200	.1780	.3260	-.1530		.0940		-.2120
180.000	1.3400	1.2290	.5880	.0870	-.2610	-.3360	-.4200	.0380	.1780	.3370	-.1530	-.0990	.1020	-.0400	-.2080
270.000	1.3400	1.2280													

X/LT	.7449	.8328	.9290
PHI			

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT01)

MACH (3) = 1.102 ALPHAT(5) = .09

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0370	-.0470	-.0810
30.000	-.0340	-.0350	-.0330
60.000	-.0340	-.0350	-.0910
90.000			-.1490
120.000	.1390	.0730	-.0490
135.000	.1460	.0720	-.0510
150.000	.1650	.0180	-.0810
165.000		-.1600	-.1320
180.000	.1840		

MACH (3) = 1.101 ALPHAT(6) = 2.010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3350	1.2640	.6170	.1420	-.2170	-.2990	-.3850	-.3270	.1690	.1550	-.0290	-.2390	-.0510	.0420	.0580
30.000	1.3350		.6050	.1220	-.2300	-.3090	-.3970	-.3340	.1670	.1520	-.1440	-.1980	-.0510	.0420	-.0150
60.000	1.3350		.5870	.1120	-.2410	-.3080	-.4040	-.3030	.3150	.0530	-.4350	.0020	-.0120	.0340	.0060
90.000	1.3350	1.2220	.5640	.0870	-.2560	-.3310	-.4220	.0250	.5460	-.5000	-.3870	.0710	.0470	-.0040	-.0410
120.000	1.3350		.5330	.0690	-.2750	-.3440	-.4290	.0090	.3260	.0030	-.3850	.1490	.0940	-.0080	-.1820
135.000	1.3350							.0030		.1850		.1580		-.0100	
150.000	1.3350		.5200	.0590	-.2910	-.3540	-.4340	-.0040	.1380	.2700	-.1510	.0840	.0940	-.0260	-.1780
165.000	1.3350			.0490	-.2930	-.3580	-.3940	.0000	.1340	.2830	-.1230		.0960		-.1690
180.000	1.3350	1.1880	.5170	.0420	-.2950	-.3590	-.3610	.0110	.1320	.2830	-.1230	-.0380	.1170	-.0190	-.1650
270.000	1.3350	1.2280													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0200	-.0480	-.0450
30.000	-.0200	-.0260	-.0310
60.000	-.0080	-.0110	-.0700
90.000			-.1930
120.000	.1080	.1020	-.0300
135.000	.1280	.0860	-.0370
150.000	.1440	.0250	-.0610
165.000		-.1680	-.0990
180.000	.1670		

MACH (3) = 1.102 ALPHAT(7) = 4.020

SECTION (2)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3220	1.2800	.6650	.1850	-.1750	-.2660	-.3630	-.3010	.2140	.1960	-.0080	-.2070	-.0560	.0210	.0710
30.000	1.3220		.6440	.1800	-.1960	-.2800	-.3750	-.3135	.2250	.1730	-.1130	-.1720	-.0570	.0240	.0030
60.000	1.3220		.6020	.1420	-.2220	-.3000	-.3990	-.3390	.3800	.0730	-.3630	-.0140	-.0560	.0340	.0240
90.000	1.3220	1.2070	.5330	.0920	-.2610	-.3420	-.4300	.0340	.5320	-.5340	-.3630	.0110	.0530	.0270	-.0580
120.000	1.3220		.5100	.0480	-.2940	-.3690	-.4490	-.0010	.2850	-.0660	-.1890	.0950	.0860	.0070	-.1570
135.000	1.3220							-.0270		.1270		.1460		.0050	
150.000	1.3220		.4740	.0240	-.3193	-.3840	-.4080	-.0350	.0980	.2430	-.1490	.1100	.0880	-.0160	-.1430
165.000	1.3220			.0120	-.3230	-.3900	-.1240	-.0270	.0990	.2540	-.0710		.0900		-.1330
180.000	1.3220	1.1360	.4680	.0040	-.3260	-.3920	-.1110	-.0180	.1000	.2540	-.0700	.0550	.0990	-.0120	-.1230
270.000	1.3220	1.2120													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0030	-.0480	.0190
30.000	-.0010	-.0240	-.0090
60.000	.0480	.0140	-.0350
90.000			-.1710
120.000	.0920	.1290	-.0320
135.000	.1180	.1110	-.0330
150.000	.1320	.0510	-.0510
165.000		-.1570	-.0750
180.000	.1610		

MACH (3) = 1.105 ALPHAT(8) = 5.980

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3100	1.3140	.7150	.2330	-.1400	-.2270	-.3280	-.2660	.2280	.2140	.0220	-.1680	-.0290	.0110	.0850
30.000	1.3100		.6980	.2020	-.1700	-.2490	-.3480	-.2810	.2470	.2050	-.0690	-.1020	-.0370	.0250	.0120
60.000	1.3100		.6180	.1430	-.2120	-.2840	-.3840	-.3230	.3650	.1210	-.2950	-.0410	-.0340	.0380	.0410
90.000	1.3100	1.1920	.5430	.0700	-.2700	-.3430	-.4350	.0380	.4890	-.5650	-.3730	-.1170	.0410	.0480	-.0340
120.000	1.3100		.4710	.0090	-.3180	-.3820	-.4620	-.0030	.2280	-.1300	-.2320	-.0210	.0770	.0280	-.1100
135.000	1.3100							-.0420		.0780		.0890		.0260	
150.000	1.3100		.4310	-.0240	-.3490	-.4070	-.3220	-.0610	.0600	.2120	-.1060	.0780	.0820	.0040	-.0970
165.000	1.3100			-.0410	-.3510	-.4080	-.1140	-.0500	.0540	.2350	-.0360		.0870		-.0990
180.000	1.3100	1.2070	.4200	-.0510	-.3530	-.4140	-.0940	-.0440	.0620	.2350	-.0360	.0530	.0990	.0080	-.0830
270.000	1.3100	1.2030													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-7ft IA9 CBA + S3 + T9 EXTERNAL TANK (RBNTD1)

MACH (9) = 1.105 ALPHAT(8) = 5.980

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	.0240	-.0260	.0280
30.000	.0400	-.0080	-.0100
60.000	.0720	.0300	-.0260
90.000			-.1600
120.000	.1020	.1650	-.0340
135.000	.1230	.1460	-.0270
150.000	.1380	.0880	-.0290
165.000		-.1260	-.0310
180.000	.1660		

MACH (9) = 1.102 ALPHAT(9) = 7.980

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2840	1.3270	.7650	.2820	-.0970	-.1900	-.2990	-.2280	.2350	.2230	.0450	-.1190	-.0050	.0080	.0910
30.000	1.2840		.7250	.2460	-.1370	-.2210	-.3150	-.2570	.2700	.2170	-.0610	-.0550	-.0250	.0120	.0080
60.000	1.2840		.6320	.1570	-.2040	-.2820	-.3790	-.2810	.3720	.1470	-.2210	-.0310	-.0210	.0360	.0510
90.000	1.2840	1.1700	.5260	.0620	-.2830	-.3580	-.4380	-.0460	.4490	-.6020	-.3430	-.2440	.0130	.0420	-.0150
120.000	1.2840		.4330	-.0170	-.3430	-.4100	-.4880	-.0660	.1240	-.2120	-.3050	-.0850	.0820	.0450	-.0770
135.000	1.2840							-.0850		.0040		.0010		.0420	
150.000	1.2840		.3830	-.0610	-.3730	-.4310	-.2010	-.0890	.0140	.1750	-.0550	.0240	.0860	.0280	-.0360
165.000	1.2840			-.0770	-.3810	-.4360	-.0950	-.0860	.0140	.1960	.0130		.0900		-.0490
180.000	1.2840	1.0270	.3710	-.0880	-.3830	-.4420	-.0910	-.0790	.0150	.2010	.0130	.0140	.1130	.0330	-.0480
270.000	1.2840	1.1790													

X/LT	.7449	.8526	.9290
PHI			
.000	.0510	.0010	.0390
30.000	.0510	.0060	.0170
60.000	.0850	.0390	-.0170
90.000			-.1400
120.000	.1050	.1800	-.0170
135.000	.1250	.1680	-.0240
150.000	.1520	.1120	-.0240
165.000		-.1040	-.0360
180.000	.1790		

AMES 11-7X7 IA9 OPA + S3 + T9 EXTERNAL TANK (RBMTD1)

MACH (3) = 1.102 ALPHAT(1D) = 9.950

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2540	1.3340	.8090	.3280	-.0540	-.1490	-.2600	-.1920	.2700	.2470	.0870	-.0290	.0200	.0130	.0830
30.000	1.2540		.7600	.2830	-.1040	-.1890	-.2790	-.2310	.3200	.2470	-.0320	-.0050	.0010	.0080	-.0050
60.000	1.2540		.6370	.1660	-.1920	-.2690	-.3680	-.3140	.4370	.2150	-.0920	-.0060	.0060	.0270	.0570
90.000	1.2540	1.1410	.5060	.0460	-.2980	-.3700	-.4620	.0150	.4150	-.6310	-.3120	-.2330	.0100	.0500	.0220
120.000	1.2540		.3900	-.0530	-.3690	-.4360	-.5110	-.0800	.0500	-.2710	-.3850	-.1090	.0700	.0460	-.0520
135.000	1.2540							-.0830		-.0080		-.0450		.0480	
150.000	1.2540		.3360	-.0990	-.4020	-.4590	-.1210	-.0890	.0080	.1460	-.0290	-.0210	.0850	.0370	.0020
165.000	1.2540			-.1170	-.4070	-.4610	-.0780	-.0850	.0100	.1740	.0490		.0910		.0020
180.000	1.2540	.9670	.3210	-.1260	-.4090	-.4610	-.0840	-.0850	.0100	.1740	.0830	.0030	.1080	.0490	.0100
270.000	1.2540	1.1510													

X/LT	.7449	.8528	.9290
PHI			
.000	.0860	.0320	.0420
30.000	.0710	.0340	.0390
60.000	.0920	.0580	-.0190
90.000			-.1200
120.000	.1140	.1880	-.0130
135.000	.1370	.1840	-.0230
150.000	.1580	.1210	-.0200
165.000		-.1020	-.0280
180.000	.1900		

MACH (4) = 1.250 ALPHAT(1) = -8.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3740	1.1080	.4280	.0030	-.2720	-.3280	-.3830	-.3380	.0190	.1050	.0040	-.2280	-.2180	-.0700	.0380
30.000	1.3740		.4410	.0030	-.2690	-.3260	-.3860	-.3420	.0120	.0370	-.1720	-.2270	-.1720	-.0870	-.0520
60.000	1.3740		.4960	.0540	-.2380	-.2900	-.3760	-.3190	.0690	-.2510	-.5070	-.3090	-.0370	-.0970	-.0990
90.000	1.3740	1.2350	.5830	.1340	-.1800	-.2470	-.3300	-.2560	.5320	-.3600	-.3340	-.4170	-.2990	-.1710	-.0950
120.000	1.3740		.6680	.2290	-.1050	-.1800	-.2620	-.2240	.5330	.3510	.0370	.0730	.1640	.0170	-.1850
135.000	1.3740							-.2090		.4390		.1140		.0150	
150.000	1.3740		.7820	.3130	-.0410	-.1180	-.2080	-.1810	.3320	.4940	.0360	.1080	.1620	.0020	-.1690
165.000	1.3740			.3360	-.0210	-.1040	-.1920	-.1560	.1810	.5560	-.0170		.1700		-.1710
180.000	1.3740	1.4080	.8160	.3370	-.0170	-.0950	-.1870	-.1480	.1570	.5920	-.0160	.0320	.1660	.0010	-.1600
270.000	1.3740	1.2510													

X/LT	.7449	.8528	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTD1)

MACH (4) = 1.230 ALPHAT(1) = -8.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0120	-.0390	-.0300
30.000	-.0130	-.0300	-.0490
60.000	-.0230	-.0060	-.0180
90.000			-.0760
120.000	-.0850	.1060	-.1310
135.000	-.1480	.1080	-.1720
150.000	-.1640	.0990	-.1970
165.000		-.0050	-.1990
180.000	-.1680		

MACH (4) = 1.252 ALPHAT(2) = -5.980

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3960	1.1660	.4780	.0450	-.2440	-.3080	-.3700	-.3250	.0100	.1190	.0310	-.2070	-.2420	-.0680	.0280
30.000	1.3960		.4890	.0440	-.2420	-.2990	-.3710	-.3260	.0000	.1030	-.1460	-.2790	-.1260	-.0820	-.0230
60.000	1.3960		.5330	.0830	-.2160	-.2690	-.3540	-.2930	.1370	-.1330	-.5400	-.1680	-.0240	-.0450	-.0580
90.000	1.3960	1.2780	.6020	.1490	-.1720	-.2390	-.3190	-.2650	.3600	-.3490	-.4050	-.4110	-.2060	-.3220	-.1270
120.000	1.3960		.6730	.2170	-.1150	-.1860	-.2670	-.2520	.4680	.3210	-.0450	.0190	.1550	.0320	-.1910
135.000	1.3960							-.2310		.4210		.0780		.0310	
150.000	1.3960		.7430	.2780	-.0710	-.1450	-.2280	-.2190	.2700	.4830	.0070	.0460	.1570	.0090	-.1670
165.000	1.3960			.2900	-.0560	-.1300	-.2190	-.1860	.1070	.5460	.0060		.2160		-.1590
180.000	1.3960	1.3340	.7690	.2940	-.0540	-.1270	-.2130	-.1800	.1200	.5750	-.0050	.0050	.2410	.0060	-.1530
270.000	1.3960	1.2740													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0050	-.0390	-.0280
30.000	-.0060	-.0290	-.0290
60.000	-.0670	-.0150	-.0310
90.000			-.0840
120.000	-.0970	.1130	-.1070
135.000	-.1700	.1130	-.1440
150.000	-.1870	.1020	-.1480
165.000		-.0010	-.1700
180.000	-.1940		

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBNTO1)

MACH (4) = 1.248 ALPHAT(3) = -4.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4090	1.2150	.5240	.0850	-.2210	-.2830	-.3470	-.3080	-.0390	.1540	.0380	-.1790	-.2520	-.0520	.0210
30.000	1.4090		.5340	.0830	-.2210	-.2770	-.3480	-.3070	.0210	.1400	-.0960	-.2600	-.1020	-.0780	-.0290
60.000	1.4090		.5660	.1120	-.1970	-.2550	-.3370	-.2890	.1680	-.0450	-.4940	-.0900	-.0220	-.0520	-.0550
90.000	1.4090	1.2290	.6140	.1540	-.1640	-.2330	-.3070	-.2370	.5600	-.3280	-.5110	-.4140	-.0850	-.2910	-.1310
120.000	1.4090		.6590	.2000	-.1280	-.1960	-.2770	-.2350	.2640	.2960	-.0980	-.0500	.1050	.0500	-.1770
135.000	1.4090							-.2310		.3760		.0210		.0490	
150.000	1.4090		.7150	.2430	-.1020	-.1710	-.2540	-.2280	.2670	.4150	.0140	-.0180	.0770	.0410	-.1550
165.000	1.4090			.2500	-.0920	-.1670	-.2530	-.2250	.2660	.4910	-.0050		.0590		-.1440
180.000	1.4090	1.2310	.7190	.2490	-.0910	-.1640	-.2530	-.2220	.2610	.5380	-.0060	-.0080	.0850	.0310	-.1390
270.000	1.4090	1.2800													

X/L*	.7449	.8328	.9290
PHI			
.000	.0040	-.0580	-.0280
30.000	.0040	-.0260	-.0140
60.000	-.0380	-.0240	-.0150
90.000			-.0790
120.000	-.0780	.1320	-.0790
135.000	-.1490	.1340	-.1210
150.000	-.1810	.1150	-.1180
165.000		.0020	-.1430
180.000	-.1980		

MACH (4) = 1.250 ALPHAT(4) = -1.980

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4200	1.2880	.5710	.1250	-.1910	-.2590	-.3250	-.2780	-.1210	.1990	.0520	-.1650	-.2380	-.0550	.0100
30.000	1.4200		.5780	.1190	-.1930	-.2590	-.3290	-.2820	.0410	.1230	-.0520	-.2290	-.0980	-.0590	-.0380
60.000	1.4200		.5940	.1380	-.1740	-.2340	-.3200	-.2800	.1800	.0190	-.4310	-.0610	.0010	-.0520	-.0580
90.000	1.4200	1.2980	.6180	.1580	-.1610	-.2260	-.3010	-.2130	.5640	-.3100	-.5920	-.3630	-.0970	-.2650	-.1730
120.000	1.4200		.6590	.1810	-.1430	-.2070	-.2880	-.2230	.2740	.2330	-.1660	-.0920	.0540	.0550	-.1680
135.000	1.4200							-.2250		.3640		-.0570		.0610	
150.000	1.4200		.6620	.2010	-.1310	-.1970	-.2750	-.2240	.2770	.4050	.0080	-.0690	.0920	.0620	-.1340
165.000	1.4200			.2020	-.1270	-.1940	-.2750	-.2230	.2160	.4690	.0120		-.0270		-.1240
180.000	1.4200	1.3420	.8690	.1990	-.1280	-.1940	-.2750	-.2240	.2180	.4080	.0120	-.0480	-.1090	.0670	-.0980
270.000	1.4200	1.2980													

X/L*	.7449	.8328	.9290

PHI

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK (OEWT01)

MACH (4) = 1.250 ALPHA(4) = -1.980

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.7449	.8528	.9850
PHI			
.000	.0070	-.0270	-.0380
30.000	.0040	-.0180	-.0100
60.000	-.0230	-.0190	-.0330
90.000			-.0970
120.000	-.0800	.1580	-.0890
135.000	-.1240	.1570	-.0870
150.000	-.1800	.1290	-.0850
165.000		.0040	-.1140
180.000	-.1680		

MACH (4) = 1.249 ALPHA(3) = .080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0009	.0452	.1088	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.8972
PHI															
.000	1.4210	1.3080	.6250	.1650	-.1570	-.2300	-.3090	-.2690	-.1850	.2040	.0780	-.1430	-.2180	-.0820	-.0010
30.000	1.4210		.6200	.1640	-.1610	-.2320	-.3090	-.2680	.0050	.1950	-.0590	-.1980	-.0940	-.0830	-.0340
60.000	1.4210		.6180	.1620	-.1590	-.2210	-.3090	-.2680	.1520	.0770	-.3840	-.0410	-.0070	-.0410	-.0310
90.000	1.4210	1.3020	.6030	.1590	-.1600	-.2290	-.3080	-.2690	.3680	-.2970	-.5010	-.0460	-.0080	-.0920	-.1270
120.000	1.4210		.6170	.1610	-.1590	-.2280	-.3070	-.2690	.2870	.1570	-.2320	-.0500	.0540	.0350	-.1280
135.000	1.4210							-.2690		.3040		-.1570		.0430	
150.000	1.4210		.6250	.1670	-.1610	-.2270	-.3070	-.2700	.1490	.2970	.0320	-.1180	.0010	.0090	-.1050
165.000	1.4210			.1610	-.1610	-.2280	-.3070	-.2710	.1500	.2980	.0430		-.0770		-.0980
180.000	1.4210	1.3080	.6210	.1590	-.1620	-.2280	-.3080	-.2710	.1580	.3030	.0570	-.0490	-.1730	.1100	-.0840
270.000	1.4210	1.3040													

X/L?	.7449	.8528	.9850
PHI			
.000	.0130	-.0180	-.0430
30.000	.0140	-.0080	-.0110
60.000	.0000	-.0230	-.0900
90.000			-.1030
120.000	-.0910	.1690	-.0970
135.000	-.1170	.1640	-.0870
150.000	-.1290	.1270	-.0690
165.000		-.0110	-.0720
180.000	-.1180		

TABULATED PRESSURE DATA - [illegible]

AREA 59-777 14° CBA + 53 + 79 EXTERNAL FAIR

[illegible]

[illegible] = 1.347 ALPHA(5) = 2.030

SECTION 1 EXTERNAL FAIR DEPENDENT VARIABLE CP

Y/C		.0000	.0476	.0952	.1428	.1744	.1904	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5565	.6379
[illegible]																
	.000	-.1[illegible]	-.1[illegible]	.0[illegible]	-.1[illegible]	-.1[illegible]	-.1[illegible]	-.2[illegible]	-.2[illegible]	-.1[illegible]	.2[illegible]	.1[illegible]	-.1[illegible]	-.1[illegible]	-.0[illegible]	.0[illegible]
	.[illegible]	-.1[illegible]		[illegible]	-.1[illegible]	-.1[illegible]	-.2[illegible]	-.2[illegible]	-.2[illegible]	-.1[illegible]	.2[illegible]	-.0[illegible]	-.1[illegible]	-.0[illegible]	-.0[illegible]	-.0[illegible]
	.[illegible]	-.1[illegible]		[illegible]	-.1[illegible]	-.1[illegible]	-.2[illegible]	-.2[illegible]	-.2[illegible]	-.1[illegible]	.2[illegible]	.3[illegible]	-.0[illegible]	.0[illegible]	-.0[illegible]	-.0[illegible]
	.[illegible]	-.1[illegible]		[illegible]	-.1[illegible]	-.1[illegible]	-.2[illegible]	-.2[illegible]	-.2[illegible]	-.1[illegible]	.2[illegible]	-.4[illegible]	-.0[illegible]	.0[illegible]	-.0[illegible]	-.0[illegible]
	.[illegible]	-.1[illegible]	-.2[illegible]	[illegible]	-.1[illegible]	-.1[illegible]	-.2[illegible]	-.2[illegible]	-.2[illegible]	-.1[illegible]	.2[illegible]	-.0[illegible]	-.0[illegible]	.0[illegible]	-.0[illegible]	-.1[illegible]
	.[illegible]	-.1[illegible]		[illegible]	-.1[illegible]	-.1[illegible]	-.2[illegible]	-.2[illegible]	-.2[illegible]	-.1[illegible]	.2[illegible]	-.0[illegible]	-.1[illegible]	-.0[illegible]	.0[illegible]	-.0[illegible]
	.[illegible]	-.1[illegible]		[illegible]	-.1[illegible]	-.1[illegible]	-.2[illegible]	-.2[illegible]	-.2[illegible]	-.1[illegible]	.2[illegible]	.2[illegible]	-.1[illegible]	-.0[illegible]	-.

| | | |

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3710	1.4080	.8210	.3470	-.0120	-.0950	-.1900	-.1480	-.0890	.3190	.1640	-.0180	-.0630	-.0130	.0280
30.000	1.3710		.7830	.3150	-.0420	-.1210	-.2010	-.1740	-.1000	.3220	.0900	-.0840	-.0320	-.0250	-.0370
60.000	1.3710		.6920	.2370	-.1070	-.1710	-.2610	-.2300	.4400	.2500	-.1570	.0080	-.0220	-.0190	-.0190
90.000	1.3710	1.2500	.5870	.1380	-.1820	-.2470	.3180	-.2730	.5030	-.3750	-.2610	-.3720	-.0870	.0360	.0180
120.000	1.3710		.4930	.0600	-.2330	-.2950	-.3660	-.3340	.1580	-.1580	-.2910	-.1550	.0240	.1010	-.0370
135.000	1.3710							-.3330		.0150		-.1960		.1050	
150.000	1.3710		.4440	.0210	-.2660	-.3230	-.3770	-.0950	.0090	.1380	.0170	-.1200	-.0560	.1100	-.0090
165.000	1.3710			.0060	-.2740	-.3230	-.3815	-.0480	.0140	.1630	.0540		-.1480		.0060
180.000	1.3710	1.1050	.4300	-.0020	-.2770	-.3280	-.3830	-.0530	.0090	.1650	.0620	-.0470	-.2000	.1910	.0050
270.000	1.3710	1.2370													

X/LT	.7449	.8528	.9290
PHI			
.000	.0055	.0340	.0380
30.000	.0050	.0480	.0380
60.000	.0750	.0580	.0130
90.000			-.0890
120.000	.0740	.2020	.0530
135.000	.0980	.1840	.0730
150.000	.1320	.1280	.0730
165.000		-.0240	.0440
180.000	.1745		

MACH (4) = 1.246 ALPHAT(10) = 9.960

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3400	1.4180	.8660	.3950	.0260	-.0570	-.1550	-.1100	-.0570	.3555	.1610	.0020	.0010	.0170	.0440
30.000	1.3400		.8180	.3530	-.0130	-.0920	-.1780	-.1460	-.0840	.3530	.0940	-.0180	.0010	-.0020	-.0350
60.000	1.3400		.7000	.2440	-.0970	-.1620	-.2520	-.2220	.4030	.2890	-.0830	.0430	-.0010	.0080	.0070
90.000	1.3400	1.2220	.5670	.1230	-.1950	-.2550	-.3340	-.3070	.4700	-.3980	-.3530	-.3510	-.0550	.0900	.0410
120.000	1.3400		.4530	.0280	-.2630	-.3220	-.3900	-.3380	.1050	-.2600	-.3470	-.1640	.0110	.0530	-.0440
135.000	1.3400							-.3170		-.0800		-.1550		.1060	
150.000	1.3400		.3960	-.0160	-.2960	-.3480	-.4050	-.0820	-.0180	.0860	.0470	-.1330	-.0450	.1080	.0180
165.000	1.3400			-.0300	-.3020	-.3460	-.3620	-.0590	-.0240	.1370	.0960		-.1280		.0290
180.000	1.3400	1.0480	.3840	-.0380	-.3020	-.3490	-.3310	-.0630	-.0220	.1290	.0940	-.0270	-.1820	.1780	.0350
270.000	1.3400	1.2310													

X/LT	.7449	.8528	.9290
PHI			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 02A + 33 + 19 EXTERNAL TANK

MACH (4) = 1.246 ALPHAT(10) = 9.960

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0030	.0450	.0620
30.000	-.0030	.0590	.0510
60.000	.0740	.0690	.0180
90.000			-.0880
120.000	.1060	.2190	.0820
135.000	.1350	.2130	.0800
150.000	.1590	.1360	.0800
165.000		-.0200	.0570
180.000	.1800		

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0350 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .598 ALPHAT(1) = -8.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0240	.7220	.0380	-.3390	-.4140	-.3760	-.2470	-.1400	-.1120	-.1110	-.0880	-.0700	-.0590	-.0490	-.0290
30.000	1.0240		.0530	-.3800	-.4160	-.3800	-.2510	-.1490	-.1430	-.1660	-.0890	-.0930	-.0600	-.0560	-.0600
60.000	1.0240		.1100	-.2930	-.3730	-.3330	-.2290	-.1390	-.2510	-.4640	-.1930	-.1590	-.0880	-.1180	-.1050
90.000	1.0240	.8980	.2170	-.2110	-.2980	-.2490	-.1000	.0310	.0580	-1.4770	-.7880	-.4510	-.2550	-.1670	-.1070
120.000	1.0240		.3390	-.0840	-.2350	-.1960	-.0700	.0510	.1740	-.0450	-.0670	-.0650	-.0600	-.0420	-.0360
135.000	1.0240							.0340		.0220		-.0700		-.0500	
150.000	1.0240		.4610	.0210	-.1780	-.1590	-.0780	.0330	.1300	.0510	-.0710	-.0740	-.0860	-.0570	-.0360
165.000	1.0240			.0490	-.1560	-.1460	-.0700	.0380	.1520	.0970	-.0660		-.0880		-.0520
180.000	1.0240	1.0910	.5090	.0550	-.1520	-.1360	-.0560	.0420	.1660	.1320	-.0670	-.0780	-.0880	-.0670	-.0280
270.000	1.0240	.8970													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0530	-.1100	-.4200
30.000	-.0590	-.1180	-.4230
60.000	-.0810	-.1410	-.4190
90.000			-.4930
120.000	.0010	-.1980	-.4430
135.000	-.0010	-.1990	-.4340
150.000	.0000	-.2340	-.3590
165.000		-.3150	-.2130
180.000	.0110		

MACH (1) = .598 ALPHAT(2) = -8.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0580	.7980	.0960	-.3000	-.3930	-.3590	-.2440	-.1410	-.1000	-.1080	-.0870	-.0710	-.0590	-.0490	-.0340
30.000	1.0580		.1090	-.3130	-.3920	-.3600	-.2450	-.1380	-.1260	-.1490	-.0890	-.0810	-.0510	-.0550	-.0670
60.000	1.0580		.1600	-.2490	-.3430	-.3150	-.2020	-.1000	-.1810	-.4060	-.1680	-.1110	-.1140	-.0810	-.0840
90.000	1.0580	.9290	.2400	-.1810	-.2770	-.2330	-.0770	.0570	.1230	-1.3030	-.5980	-.4070	-.2640	-.1780	-.1140
120.000	1.0580		.3310	-.0880	-.2330	-.2050	-.0720	.0530	.1500	-.0820	-.0760	-.0750	-.0670	-.0510	-.0370
135.000	1.0580							.0280		.0020		-.0770		-.0610	
150.000	1.0580		.4210	-.0180	-.1980	-.1900	-.0930	.0180	.1030	.0360	-.0690	-.0840	-.0880	-.0850	-.0310

*
/

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT02)

MACH (1) = .598 ALPHAT(2) = -6.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.0360			-.0045	-.1920	-.1870	-.0930	.0150	.1280	.0860	-.0780		-.0980		-.0270
180.000	1.0360	1.0740	.4520	-.0030	-.1910	-.1750	-.0840	.0180	.1440	.1190	-.0710	-.0880	-.0980	-.0780	-.0310
270.000	1.0360	.9260													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0810	-.1030	-.3510
30.000	-.0810	-.1110	-.3360
60.000	-.1030	-.1360	-.3690
90.000			-.4550
120.000	.0120	-.1800	-.4460
135.000	.0110	-.1840	-.4430
150.000	.0030	-.2260	-.3910
165.000		-.3030	-.2530
180.000	.0130		

MACH (1) = .599 ALPHAT(3) = -3.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0790	.8630	.1540	-.2610	-.3610	-.3520	-.2330	-.1300	-.0840	-.0880	-.0730	-.0620	-.0510	-.0450	-.0210
30.000	1.0790		.1670	-.2690	-.3700	-.3390	-.2240	-.1220	-.0990	-.1210	-.0730	-.0710	-.0480	-.0460	-.0570
60.000	1.0790		.2020	-.2180	-.3210	-.2800	-.1680	-.0660	-.1150	-.3520	-.1460	-.0890	-.0760	-.0750	-.0550
90.000	1.0790	.9530	.2650	-.1660	-.2620	-.2120	-.0580	.0690	.1760	-1.1500	-.3980	-.3010	-.2280	-.1730	-.1100
120.000	1.0790		.3190	-.1070	-.2340	-.1960	-.0680	.0620	.1260	-.1050	-.0870	-.0760	-.0740	-.0540	-.0390
135.000	1.0790							.0220		-.0120		-.0780		-.0560	
150.000	1.0790		.3780	-.0570	-.2250	-.2030	-.0980	.0120	.0980	.0330	-.0690	-.0830	-.0910	-.0680	-.0240
165.000	1.0790			-.0540	-.2240	-.2030	-.1000	.0040	.1160	.0820	-.0810		-.0950		-.0250
180.000	1.0790	1.0510	.3940	-.0520	-.2220	-.2030	-.1010	.0050	.1310	.1190	-.0780	-.0830	-.0980	-.0750	-.0260
270.000	1.0790	.9520													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0540	-.0940	-.3320
30.000	-.0540	-.0960	-.3310
60.000	-.0680	-.1380	-.3580
90.000			-.4380
120.000	.0200	-.1530	-.4360
135.000	.0220	-.1570	-.4290
150.000	.0200	-.1970	-.3860

MACH (1) = .599 ALPHAT(3) = -3.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8525	.9290
PHI			
185.000		-.2760	-.2480
180.000	.0330		

MACH (1) = .599 ALPHAT(4) = -1.910

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.8372
PHI															
.000	1.0940	.9270	.2200	-.2110	-.3510	-.3330	-.2210	-.1190	-.0690	-.0790	-.0680	-.0570	-.0490	-.0440	-.0240
30.000	1.0940		.2220	-.2230	-.3460	-.3200	-.2040	-.1020	-.0730	-.1020	-.0690	-.0820	-.0490	-.0420	-.0490
60.000	1.0940		.2430	-.1860	-.2950	-.2620	-.1480	-.0350	-.0630	-.3050	-.1280	-.0660	-.0580	-.0510	-.0450
90.000	1.0940	.9660	.2750	-.1560	-.2500	-.2050	-.0530	.1020	.2080	-1.1320	-.2410	-.1770	-.1470	-.1270	-.0830
120.000	1.0940		.2970	-.1250	-.2500	-.2100	-.0750	.0490	.1000	-.1390	-.0880	-.0840	-.0790	-.0560	-.0360
135.000	1.0940							.0060		-.0280		-.0830		-.0590	
150.000	1.0940		.3320	-.0970	-.2500	-.2290	-.1110	-.0070	.0870	.0210	-.0650	-.0890	-.0910	-.0710	-.0290
165.000	1.0940			-.0990	-.2520	-.2330	-.1150	-.0140	.1050	.0780	-.0770		-.0960		-.0230
180.000	1.0940	1.0190	.3400	-.1020	-.2530	-.2200	-.1210	-.0050	.1170	.1150	-.0800	-.0910	-.0990	-.0790	-.0180
270.000	1.0940	.9700													

X/LT	.7449	.8525	.9290
PHI			
.000	-.0530	-.0910	-.3190
30.000	-.0530	-.0940	-.3310
[illegible]	-.0540	-.1270	-.3310
90.000			-.4180
120.000	.0890	-.1270	-.4150
135.000	.0280	-.1300	-.4140
150.000	.0320	-.1680	-.3890
165.000		-.2380	-.2950
180.000	.0410		

AMES 11-707 IA9 OPA + S3 + T9 EXTERNAL TANK (RBNT02)

MACH (1) = .599 ALPHAT(5) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0930	.9750	.2750	-.1650	-.3280	-.3080	-.2160	-.1110	-.0640	-.0690	-.0630	-.0520	-.0410	-.0390	-.0090
30.000	1.0930		.2690	-.1880	-.3250	-.3010	-.1910	-.0860	-.0560	-.0880	-.0630	-.0570	-.0420	-.0350	-.0500
60.000	1.0930		.2730	-.1680	-.2800	-.2440	-.1230	-.0160	-.0100	-.2630	-.1060	-.0700	-.0460	-.0400	-.0350
90.000	1.0930	.9690	.2780	-.1550	-.2450	-.1960	-.0410	.1090	.2220	-1.1030	-.1090	-.0850	-.0640	-.0590	-.0320
120.000	1.0930		.2740	-.1430	-.2540	-.2100	-.0830	.0360	.0680	-.1660	-.0880	-.0730	-.0690	-.0470	-.0320
135.000	1.0930							-.0050		-.0380		-.0690		-.0510	
150.000	1.0930		.2800	-.1390	-.2720	-.2400	-.1300	-.0190	.0660	.0210	-.0680	-.0730	-.0840	-.0560	-.0180
165.000	1.0930			-.1470	-.2800	-.2480	-.1290	-.0200	.0970	.0790	-.0680		-.0900		-.0170
180.000	1.0930	.9770	.2860	-.1530	-.2770	-.2470	-.1330	-.0260	.1050	.0800	-.0650	-.0760	-.0850	-.0650	-.0170
270.000	1.0930	.9720													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0540	-.0770	-.3220
30.000	-.0340	-.0760	-.3340
60.000	-.0350	-.1040	-.3190
90.000			-.3840
120.000	.0290	-.0990	-.3880
135.000	.0310	-.1050	-.4020
150.000	.0440	-.1400	-.3660
165.000		-.2250	-.2280
180.000	.0580		

MACH (1) = .599 ALPHAT(6) = 2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0920	1.0150	.3310	-.1150	-.3070	-.2930	-.1920	-.0880	-.0450	-.0510	-.0490	-.0430	-.0380	-.0310	-.0040
30.000	1.0920		.3180	-.1460	-.3070	-.2870	-.1760	-.0710	-.0370	-.0690	-.0500	-.0500	-.0340	-.0270	-.0440
60.000	1.0920		.3020	-.1470	-.2730	-.2330	-.1120	.0090	.0290	-.2200	-.0980	-.0550	-.0390	-.0330	-.0240
90.000	1.0920	.9650	.2740	-.1610	-.2560	-.1950	-.0420	.1060	.2210	-1.0410	-.0990	-.0440	-.0500	-.0440	-.0230
120.000	1.0920		.2420	-.1770	-.2770	-.2280	-.0970	.0110	.0320	-.1930	-.1020	-.0650	-.0620	-.0410	-.0230
135.000	1.0920							-.0190		-.0460		-.0620		-.0430	
150.000	1.0920		.2300	-.1880	-.3010	-.2590	-.1380	-.0310	.0570	.0190	-.0570	-.0650	-.0720	-.0500	-.0080
165.000	1.0920			-.1990	-.3050	-.2600	-.1410	-.0335	.0830	.0770	-.0620		-.0750		-.0010
180.000	1.0920	.9270	.2260	-.2030	-.3050	-.2650	-.1430	-.0340	.0970	.1130	-.0610	-.0670	-.0770	-.0580	-.0040
270.000	1.0920	.9700													

X/LT	.7449	.8526	.9290
PHI			

AXES 11-707 IA9 OEA + 33 + 79 EXTERNAL TANK (RBNT02)

MACH (1) = .599 ALPHAT(8) = 2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0290	-.0650	-.3150
30.000	-.0280	-.0630	-.3090
60.000	-.0250	-.0710	-.3040
90.000			-.3540
120.000	.0280	-.0720	-.3310
135.000	.0350	-.0740	-.3810
150.000	.0340	-.1080	-.3470
165.000		-.1960	-.2300
180.000	.0680		

MACH (1) = .597 ALPHAT(7) = 4.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0770	1.0470	.3910	-.0670	-.2660	-.2670	-.1710	-.0790	-.0330	-.0380	-.0350	-.0290	-.0270	-.0180	.0090
30.000	1.0770		.3680	-.0880	-.2690	-.2570	-.1610	-.0540	-.0170	-.0500	-.0360	-.0400	-.0230	-.0180	-.0410
60.000	1.0770		.3230	-.1150	-.2490	-.2240	-.0980	.0240	.0670	-.1770	-.0830	-.0470	-.0290	-.0240	-.0180
90.000	1.0770	.9540	.2680	-.1610	-.2520	-.2020	-.0480	.0960	.2040	-1.0410	-.1290	-.1050	-.0670	-.0920	-.0540
120.000	1.0770		.2100	-.1950	-.2900	-.2420	-.1120	-.0100	-.0080	-.2220	-.0840	-.0660	-.0580	-.0420	-.0120
135.000	1.0770							-.0350		-.0610		-.0380		-.0430	
150.000	1.0770		.1800	-.2160	-.3130	-.2750	-.1500	-.0470	.0420	.0130	-.0520	-.0530	-.0590	-.0430	.0080
165.000	1.0770			-.2320	-.3180	-.2790	-.1520	-.0450	.0750	.0810	-.0510		-.0650		.0110
180.000	1.0770	.8700	.1680	-.2350	-.3200	-.2780	-.1500	-.0420	.0910	.1160	-.0510	-.0550	-.0630	-.0480	.0070
270.000	1.0770	.9580													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0180	-.0580	-.3040
30.000	-.0180	-.0500	-.2740
60.000	-.0150	-.0580	-.3130
90.000			-.3040
120.000	.0360	-.0570	-.3070
135.000	.0360	-.0550	-.3800
150.000	.0730	-.0850	-.3530
165.000		-.1700	-.2370
180.000	.0820		

AMES 11-7DT IA9 OEA + S3 + T9 EXTERNAL TANK (RDNTDE)

MACH (1) = .595 ALPHAT(8) = 6.010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0580	1.0740	.4470	-.0140	-.2370	-.2360	-.1440	-.0530	-.0110	-.0150	-.0150	-.0170	-.0160	-.0120	.0210
30.000	1.0580		.4120	-.0450	-.2320	-.2400	-.1430	-.0360	.0070	-.0250	-.0170	-.0300	-.0130	-.0110	-.0330
60.000	1.0580		.3360	-.1060	-.2580	-.2140	-.0980	.0320	.1000	-.1380	-.0740	-.0230	-.0260	-.0190	-.0090
90.000	1.0580	.9270	.2560	-.1770	-.2730	-.2130	-.0640	.0800	.1730	-1.1100	-.2520	-.2070	-.1620	-.1600	-.0940
120.000	1.0580		.1620	-.2340	-.3170	-.2620	-.1400	-.0380	-.0550	-.2470	-.0900	-.0610	-.0600	-.0440	-.0270
135.000	1.0580							-.0560		-.0720		-.0560		-.0410	
150.000	1.0580		.1240	-.2620	-.3340	-.2830	-.1570	-.0540	.0320	.0140	-.0470	-.0500	-.0550	-.0400	.0130
165.000	1.0580			-.2740	-.3480	-.2880	-.1610	-.0490	.0710	.0850	-.0410		-.0570		.0130
180.000	1.0580	.8020	.1090	-.2840	-.3450	-.2880	-.1670	-.0470	.0820	.1200	-.0500	-.0450	-.0560	-.0400	.0130
270.000	1.0580	.9400													

X/LT	.7449	.8526	.9290
PHI			
.000	.0030	-.0430	-.2980
30.000	-.0070	-.0370	-.2720
60.000	.0110	-.0430	-.2430
90.000			-.3380
120.000	.0510	-.0320	-.2940
135.000	.0540	-.0260	-.3520
150.000	.0480	-.0610	-.3380
165.000		-.1490	-.2310
180.000	.1020		

MACH (1) = .597 ALPHAT(9) = 8.000

SECTION (1)EXTERNAL YANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0260	1.0890	.5050	.0440	-.1940	-.2060	-.1240	-.0290	.0160	.0080	.0000	.0000	.0060	.0090	.0330
30.000	1.0280		.4550	-.0040	-.2240	-.2170	-.1250	-.0200	.0260	-.0040	-.0020	-.0150	.0040	.0040	-.0150
60.000	1.0280		.3450	-.0980	-.2480	-.2580	-.0940	.0360	.1270	-.0950	-.0550	-.0230	-.0110	-.0040	.0040
90.000	1.0280	.8950	.2260	-.1990	-.2890	-.2360	-.0820	.0540	.1220	-1.2890	-.4570	-.3080	-.2340	-.1910	-.1070
120.000	1.0280		.1160	-.2590	-.3380	-.2890	-.1650	-.0780	-.1080	-.2880	-.0990	-.0740	-.0790	-.0470	.0060
135.000	1.0280							-.0820		-.0680		-.0570		-.0470	
150.000	1.0280		.0700	-.3010	-.3580	-.3050	-.1740	-.0740	.0150	.0070	-.0440	-.0410	-.0460	-.0480	.0190
165.000	1.0280			-.3170	-.3610	-.3040	-.1730	-.0610	.0610	.0820	-.0300		-.0450		.0280
180.000	1.0280	.7240	.0540	-.3280	-.3630	-.3010	-.1680	-.0510	.0790	.1250	-.0310	-.0360	-.0420	-.0280	.0280
270.000	1.0280	.9070													

X/LT	.7449	.8526	.9290
PHI			

MACH (1) = .597 ALPHAT(9. = 8.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	.0140	-.0340	-.2940
30.000	.0110	-.0230	-.2580
60.000	.0260	-.0280	-.2270
90.000			-.3260
120.000	.0760	.0030	-.2600
135.000	.0760	-.0040	-.3240
150.000	.1000	-.0420	-.3280
165.000		-.1220	-.2210
180.000	.1120		

MACH (2) = .903 ALPHAT(1) = -8.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1620	.8810	.1710	-.3060	-.6320	-.5880	-.1090	-.0180	-.0180	-.1740	-.3790	-.0780	-.0360	-.0180	.0050
30.000	1.1620		.1860	-.3270	-.6330	-.5740	-.1060	-.0170	-.0360	-.2570	-.4050	-.1100	-.0400	-.0290	-.0410
60.000	1.1620		.2430	-.2590	-.5790	-.3590	-.0840	.0150	-.0710	-.5680	-.6020	-.2240	-.0580	-.0280	-.0190
90.000	1.1620	1.0360	.3450	-.1620	-.4920	-.2610	.0070	.1850	.2890	-1.0380	-.7040	-.6050	-.2040	-.0580	-.0180
120.000	1.1620		.4580	-.0590	-.3700	-.2730	-.0150	.1630	.3310	-.0360	-.0840	-.1160	-.1990	-.0580	.0140
135.000	1.1620							.1320		.0820		-.1110		-.0850	
150.000	1.1620		.5670	.0600	-.2840	-.2650	-.0110	.1190	.2610	.1420	-.0830	-.1090	-.2710	-.0850	.0140
165.000	1.1620			.0850	-.2580	-.2540	-.0090	.1180	.2780	.2320	-.0270		-.2710		.0140
180.000	1.1620	1.2070	.6090	.0940	-.2530	-.2450	-.0190	.1190	.2900	.2930	-.0270	-.1020	-.2590	-.0970	.0200
270.000	1.1620	1.0340													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0480	-.0880	-.3290
30.000	-.0480	-.0970	-.3280
60.000	-.0480	-.1250	-.3180
90.000			-.3090
120.000	.0940	-.1580	-.3620
135.000	.0930	-.1820	-.3520
150.000	.0940	-.2380	-.3210
165.000		-.4840	-.2630
180.000	.1090		

AMES 11-7DT IA9 OEA + S3 + T9 EXTERNAL TANK (RSNTDT)

MACH (2) = .901 ALPHAT(2) = -6.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1850	.9460	.2230	-.2830	-.5950	-.6420	-.1060	-.0120	-.0090	-.1650	-.3870	-.0750	-.0330	-.0210	-.0010
30.000	1.1850		.2370	-.2790	-.3940	-.6410	-.1020	-.0040	-.0140	-.2310	-.3660	-.1020	-.0350	-.0260	-.0440
60.000	1.1850		.2850	-.2190	-.5560	-.5910	-.0650	.0480	-.0040	-.5250	-.5580	-.1950	-.0480	-.0280	-.0180
90.000	1.1850	1.0610	.3640	-.1430	-.4820	-.2630	.0240	.2010	.3370	-1.0130	-.5800	-.5070	-.1890	-.0870	-.0180
120.000	1.1850		.4440	-.0510	-.4030	-.2830	-.0190	.1610	.3130	-.0740	-.0610	-.1180	-.1760	-.0710	.0030
135.000	1.1850							.1730		.0560		-.1140		-.0880	
150.000	1.1850		.5260	.0230	-.3340	-.2910	-.0460	.1040	.2450	.1290	-.0780	-.1001	-.2540	-.1140	.0130
165.000	1.1850			.0380	-.3160	-.2890	-.0510	.0990	.2580	.0220	-.0470		-.2590		.0120
180.000	1.1850	1.1920	.5540	.0300	-.3010	-.2830	-.0530	.0980	.2690	.2800	-.0470	-.1010	-.2490	-.1210	.0130
270.000	1.1950	1.0610													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0450	-.0890	-.3140
30.000	-.0450	-.0880	-.3140
60.000	-.0400	-.1100	-.3040
90.000			-.3670
120.000	.000	-.1330	-.3340
135.000	.0840	-.1520	-.3340
150.000	.0930	-.2140	-.3150
165.000		-.4650	-.2350
180.000	.1970		

MACH (2) = .900 ALPHAT(3) = -4.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2030	1.0020	.2760	-.2240	-.5530	-.6380	-.1030	-.0070	-.0010	-.1520	-.3640	-.0640	-.0380	-.0180	.0000
30.000	1.2030		.2870	-.2380	-.5680	-.6270	-.0980	.0000	.0060	-.2580	-.3620	-.0800	-.0310	-.0190	-.0450
60.000	1.2030		.3210	-.1900	-.5360	-.5310	-.0490	.0770	.0590	-.4870	-.5160	-.1490	-.0270	-.0260	-.0170
90.000	1.2030	1.0780	.3760	-.1370	-.4760	-.2990	.0420	.2210	.3690	-.9990	-.5160	-.3750	-.1580	-.0850	-.0170
120.000	1.2030		.4290	-.0740	-.4300	-.2340	.0000	.1580	.2690	-.1190	-.0770	-.0940	-.1570	-.0820	.0000
135.000	1.2030							.1200		.0290		-.0940		-.1070	
150.000	1.2030		.4820	-.0200	-.4040	-.2900	-.0490	.0930	.2500	.1150	-.1110	-.0890	-.2220	-.1430	.0090
165.000	1.2030			-.0180	-.4020	-.3120	-.0530	.0840	.2420	.2070	-.1580		-.2280		.0130
180.000	1.2030	1.1690	.5060	-.0210	-.3830	-.3060	-.0650	.0810	.2520	.2480	-.1230	-.0820	-.2200	-.1410	.0130
270.000	1.2030	1.0820													

X/LT	.7449	.8528	.9290
PHI			

MACH (2) = .950 ALPHAT(3) = -4.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CF

X/LT	.7449	.8526	.9290
PHI			
.000	-.0380	-.0745	-.2900
30.000	-.0380	-.0795	-.2840
60.000	-.0300	-.0980	-.2930
90.000			-.3440
120.000	.0870	-.1030	-.3170
135.000	.0870	-.1170	-.3170
150.000	.0940	-.1660	-.3020
165.000		-.4300	-.2340
180.000	.1120		

MACH (3) = .896 ALPHAT(4) = -1.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0039	.0452	.1098	.1744	.1909	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.8372
PHI															
.000	1.2160	1.0350	.3350	-.1750	-.3270	-.5970	-.1060	-.0030	.0090	-.1320	-.3910	-.0900	-.0310	-.0190	-.0010
30.000	1.2160		.3400	-.1860	-.5330	-.6010	-.0930	.0190	.0280	-.1780	-.3090	-.0340	-.0320	-.0180	-.0410
60.000	1.2160		.3560	-.1575	-.5090	-.4400	-.0360	.0960	.1060	-.4030	-.4870	-.0840	-.0270	-.0220	-.0200
90.000	1.2160	1.0920	.3850	-.1270	-.4910	-.2550	.0470	.2280	.3940	-.9780	-.4660	-.2290	-.1240	-.0620	-.0110
120.000	1.2160		.4150	-.0890	-.4470	-.3000	.0900	.1930	.2610	-.1800	-.0760	-.0640	-.1340	-.1110	.0010
135.000	1.2160							.1130		.0080		-.0680		-.1350	
150.000	1.2160		.4380	-.0710	-.4360	-.4470	-.0320	.0840	.2120	.1540	-.4110	-.0860	-.1900	-.1730	.0170
165.000	1.2160			-.0700	-.4420	-.4540	-.0600	.0750	.2260	.2300	-.6060		-.2000		.0150
180.000	1.2160	1.1410	.4500	-.0760	-.4281	-.4450	-.0770	.0720	.2360	.2640	-.6500	-.0600	-.1950	-.1780	.0180
270.000	1.2160	1.0980													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0350	-.0840	-.2970
30.000	-.0350	-.0840	-.2800
60.000	-.0240	-.0441	-.2850
90.000			-.3310
120.000	.0925	-.0710	-.3025
135.000	.0940	-.0800	-.3010
150.000	.1030	-.1300	-.3020
165.000		-.3680	-.2390
180.000	.1220		

AMES 11-7D7 IA9 OEA + 33 + T9 EXTERNAL TANK (REMTOP)

MACH (2) = .999 ALPHA(5) = .010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0009	.0432	.1098	.1744	.1909	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2180	1.1020	.3900	-.1270	-.4970	-.5680	-.1030	.0000	.0230	-.1110	-.3320	-.0590	-.0320	-.0880	.0030
30.000	1.2180		.3890	-.1680	-.5080	-.5830	-.0900	.0250	.0510	-.1480	-.3780	-.0390	-.0890	-.0880	-.0370
60.000	1.2180		.3840	-.1360	-.4980	-.4830	-.0280	.1120	.1530	-.3490	-.3480	-.0310	-.0520	-.0340	-.0160
90.000	1.2180	1.0990	.3930	-.1340	-.4950	-.2960	.0470	.2290	.4080	-.9710	-.3810	-.0680	-.0720	-.0810	-.0070
120.000	1.2180		.3820	-.1240	-.4880	-.2350	-.0040	.1450	.2310	-.2090	-.1020	-.0490	-.1210	-.3150	-.2040
135.000	1.2180							.1060		-.0170		-.0460		-.1970	
150.000	1.2180		.3900	-.1190	-.4800	-.4520	-.0520	.0830	.1990	.0930	-.4220	-.0590	-.1700	-.1820	.0190
165.000	1.2180			-.1250	-.4780	-.4890	-.0610	.0710	.2140	.1980	-.6560		-.1740		.0180
180.000	1.2180	1.0980	.3920	-.1340	-.4740	-.4880	-.0690	.0670	.2230	.2350	-.6390	-.0470	-.1670	-.1850	.0190
270.000	1.2180	1.1000													

X/L?	.7449	.8528	.9290
PHI			
.000	-.0290	-.0470	-.2410
30.000	-.0490	-.0460	-.2480
60.000	-.0170	-.0650	-.2580
90.000		-.0240	-.3240
120.000	.0840	-.0250	-.2920
135.000	.0980	-.0370	-.2880
150.000	.1140	-.0870	-.2860
165.000		-.2980	-.2290
180.000	.1330		

MACH (2) = .999 ALPHA(6) = 2.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0009	.0432	.1098	.1744	.1909	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2180	1.1410	.4480	-.0750	-.4900	-.5280	-.1020	.0090	.0350	-.1090	-.2920	-.0350	-.0280	-.0820	.0090
30.000	1.2180		.4330	-.0980	-.4780	-.5280	-.0830	.0370	.0730	-.1180	-.3920	-.0350	-.0830	-.0820	-.0330
60.000	1.2180		.4180	-.1090	-.4730	-.5090	-.0160	.1290	.1910	-.2870	-.2170	-.0160	-.0310	-.0330	-.0080
90.000	1.2180	1.0910	.3910	-.1320	-.4810	-.2540	.0500	.2290	.4140	-.9800	-.3280	-.0410	-.0490	-.0980	-.0080
120.000	1.2180		.3550	-.1490	-.4980	-.2820	-.0040	.1280	.1910	-.2600	-.1220	-.0370	-.0990	-.1750	-.0140
135.000	1.2180							.0950		-.0480		-.0390		-.1760	
150.000	1.2180		.3410	-.1830	-.5180	-.4600	-.0490	.0720	.1820	.0790	-.2820	-.0490	-.1420	-.1820	.0170
165.000	1.2180			-.1780	-.5250	-.5010	-.0530	.0640	.2010	.1870	-.4750		-.1480		.0180
180.000	1.2180	1.0340	.3370	-.1790	-.5250	-.4750	-.0690	.0640	.2120	.2490	-.4110	-.0390	-.1610	-.1830	.0220
270.000	1.2180	1.0890													

X/L?	.7449	.8528	.9290

[illegible] VARIATE MEASURED DATA [illegible]

[illegible]

[illegible] DEPENDENT VARIABLE [illegible]

[illegible]	[illegible]	[illegible]	.0432	[illegible]	.1744	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PHI														
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]												
[illegible]	.449	.8526	.9290											
PHI														
[illegible]	[illegible]	[illegible]	[illegible]											
[illegible]	[illegible]	[illegible]	[illegible]											
[illegible]	[illegible]	[illegible]	[illegible]											
[illegible]			[illegible]											
[illegible]	[illegible]	[illegible]	[illegible]											
[illegible]	[illegible]	[illegible]	[illegible]											
[illegible]	[illegible]	[illegible]	[illegible]											
[illegible]		[illegible]	[illegible]											
[illegible]	[illegible]	[illegible]												

[illegible] ALPHA[illegible] = [illegible]

SECTION [illegible] EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0909	.0432	.1705	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5589	.6572
PHI															
.000	1.1550	1.0790	.6190	.7925	-.2980	-.3950	-.1180	.0230	.0790	-.0090	-.0690	-.0070	-.0040	[illegible]	.0350
30.000	1.1550		.5650	.0450	-.3410	-.4240	-.1030	.0460	.1160	-.0250	-.0690	-.0180	-.0050	[illegible]	-.0300
60.000	1.1550		.4520	-.0530	-.4270	-.4950	-.0440	.1280	.2720	-.1470	-.0340	-.0180	[illegible]	-.0020	.0130
90.000	1.1550	1.0330	.3450	-.1620	-.5120	-.4470	.0060	.1760	.3770	-1.0960	-.3730	-.2240	-.1080	-.1180	-.0580
120.000	1.1550		.2380	-.2520	-.5930	-.3380	-.0610	.0400	.0290	-.4410	-.3340	-.1140	-.045	[illegible]	.0040
135.000	1.1550							.0320		-.1310		-.0830		[illegible]	
150.000	1.1550		.1890	-.2060	-.6250	-.4460	-.0640	.0310	.1170	.0370	-.1260	[illegible]	[illegible]	[illegible]	.0450
165.000	1.1550			-.3160	-.6360	-.5430	-.0640	.0340	.1600	.1550	-.0930		[illegible]		.0480
180.000	1.1550	.8790	.1730	-.3250	-.6510	-.3620	-.0640	.0350	.1750	.2197	-.0890	[illegible]	[illegible]	[illegible]	.0340
270.000	1.1550	1.0430													
X/LT	.7440	.8526	.9290												

MACH (2) = .900 ALPHAT(9) = 8.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	.0120	.0110	-.1510
30.000	.0310	.0150	-.1710
60.000	.0460	.0150	-.2230
90.000			-.3040
120.000	.1090	.0660	-.2550
135.000	.1230	.0640	-.2230
150.000	.1330	.0170	-.2240
165.000		-.1240	-.1890
180.000	.1750		

MACH (3) = 1.102 ALPHAT(1) = -8.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0005	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2920	1.0350	.3710	-.0790	-.3150	-.4370	-.5110	-.1060	.0390	.1070	-.0940	-.3250	-.0300	.0280	.0010
30.000	1.2920		.3630	-.0740	-.3710	-.4290	-.5100	-.1380	.0110	.0300	-.2930	-.1800	-.0480	.0040	-.0730
60.000	1.2920		.4370	-.0170	-.3340	-.4070	-.4880	-.1010	.1140	-.2950	-.4240	-.2080	-.0800	-.1560	-.0620
90.000	1.2920	1.1780	.5270	.0650	-.2760	-.3540	-.4460	.0190	.4480	-.5450	-.4400	-.4220	-.0490	-.1050	-.1110
120.000	1.2920		.6270	.1620	-.1990	-.2790	-.3750	.1230	.5060	.2430	-.0070	.1240	.0250	-.1180	-.3170
135.000	1.2920							.0330		.3290		.1330		-.1300	
150.000	1.2920		.7250	.2490	-.1250	-.2130	-.3110	-.2240	.4530	.3840	-.1900	.1530	.0090	-.1680	-.3170
165.000	1.2920			.2700	-.1050	-.1950	-.2920	-.2420	.4670	.4650	-.2260		.0180		-.3190
180.000	1.2920	1.3300	.7630	.2720	-.1040	-.1840	-.2920	-.2350	.4870	.5210	-.2830	.1760	.0270	-.1760	-.3150
270.000	1.2920	1.1780													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0510	.0090	-.0880
30.000	-.0610	-.0120	-.0910
60.000	.0070	-.0150	-.0830
90.000			-.1770
120.000	.0930	.0230	-.2230
135.000	.1120	.0130	-.2670
150.000	.1300	-.0130	-.2670
165.000		-.1540	-.2900
180.000	.1530		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RB=TOP)

MACH (3) = 1.100 ALPHAT(2) = -8.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0003	.0432	.1098	.1744	.1908	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3150	1.0970	.4240	-.0350	-.3450	-.4100	-.4690	-.1240	.0560	.1140	-.0790	-.3430	-.0250	.0420	.0190
30.000	1.3150		.4320	-.0340	-.3410	-.4160	-.4330	-.2510	.0230	.0580	-.2800	-.1820	-.0430	.0130	-.0840
60.000	1.3150		.4730	.0130	-.3130	-.3850	-.4670	-.0870	.1970	-.2740	-.4840	-.0490	-.0210	-.0390	-.0480
90.000	1.3150	1.2000	.5480	.0760	-.2640	-.3440	-.4340	.0160	.5110	-.3410	-.4660	-.0290	-.2110	-.1850	-.1560
120.000	1.3150		.6160	.1510	-.2070	-.2880	-.3790	.0520	.4990	.2210	-.2130	.1920	.0250	-.1110	-.2490
135.000	1.3150							-.0570		.5160		.1470		-.1240	
150.000	1.3150		.6670	.2110	-.1610	-.2420	-.3330	-.2770	.4120	.5220	-.2440	.1650	.3190	-.1850	-.3080
165.000	1.3150			.2260	-.1470	-.2320	-.3250	-.2760	.4220	.4640	-.2420		.0280		-.3070
180.000	1.3150	1.3140	.7130	.2280	-.1460	-.2230	-.3230	-.2710	.4440	.5140	-.2410	.1850	.0550	-.1820	-.3140
270.000	1.3150	1.2010													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0890	-.0030	-.0720
30.000	-.0910	-.0060	-.0680
60.000	-.0280	-.0280	-.0990
90.000			-.1600
120.000	.1200	.0300	-.1960
135.000	.1190	.0300	-.2250
150.000	.1480	.0010	-.2380
165.000		-.1490	-.2560
180.000	.1840		

MACH (3) = 1.102 ALPHAT(3) = -4.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1908	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3280	1.1430	.4670	.0090	-.3120	-.3670	-.4570	-.0740	.0820	.1190	-.0460	-.3250	-.0300	.0340	.0290
30.000	1.3280		.4770	.0090	-.3130	-.3840	-.4570	-.0660	.0810	.0820	-.2270	-.2580	-.0370	.0330	-.0670
60.000	1.3280		.5070	.0490	-.2920	-.3650	-.4460	-.1250	.2220	-.1470	-.4740	-.0490	-.0250	-.0220	-.0480
90.000	1.3280	1.2110	.5990	.0840	-.2590	-.3370	-.4280	.0260	.5330	-.3190	-.4680	-.0360	-.2330	-.1490	-.1190
120.000	1.3280		.8010	.1380	-.2250	-.2960	-.3870	.0750	.3980	.1960	-.1820	.1960	.0330	-.0980	-.2640
135.000	1.3280							.0490		.3050		.1350		-.1230	
150.000	1.3280		.8490	.1770	-.1990	-.2710	-.3640	-.1420	.2920	.3650	-.1440	.1490	.0550	-.1060	-.2980
165.000	1.3280			.1800	-.1840	-.2660	-.3530	-.2770	.3140	.4020	-.2390		.0340		-.2970
180.000	1.3280	1.2920	.8670	.1780	-.1850	-.2610	-.3540	-.2730	.3280	.3510	-.2390	.1660	.0410	-.1060	-.2980
270.000	1.3280	1.2150													

X/LT	.7449	.8328	.9290
PHI			

DATE 24 SEP 93 TABULATED PRESSURE DATA - 1494

AMES 11-FOOT 1&9 OPA + 33 + 99 EXTERNAL TANK RUN 98

MACH (3) = 1.102 ALPHA(3) = -0.990

SECTION : 1:EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8328	.9290
PHI			
.000	-.0490	-.0710	-.0850
30.000	-.0480	-.0710	-.0480
60.000	-.0170	-.0460	-.1290
90.000			-.1590
120.000	.1910	.0480	-.1590
135.000	.1990	.0450	-.1920
150.000	.1810	.0120	-.1840
165.000		-.1430	-.2240
180.000	.1730		

MACH (3) = 1.102 ALPHA(4) = -1.990

SECTION : 1:EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0052	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3997	.4499	.5027	.5589	.8972
PHI															
.000	1.3360	1.1890	.5140	.0500	-.2890	-.3610	-.4470	-.5090	.1190	.1370	-.0830	-.3010	-.0480	.0480	.0590
30.000	1.3360		.5190	.0440	-.2990	-.3590	-.4490	-.5000	.0990	.1120	-.1920	-.3020	-.0490	.0810	-.0380
60.000	1.3360		.5330	.0630	-.2730	-.3400	-.4360	-.1190	.2890	-.0020	-.4810	-.0250	-.0190	.0130	-.0580
90.000	1.3360	1.2190	.5610	.0910	-.2570	-.3370	-.4240	.0170	.3490	-.2030	-.3980	-.1220	-.2710	-.2160	-.0980
120.000	1.3360		.5820	.1150	-.2390	-.3190	-.4120	.0430	.3860	.1320	-.2860	.1410	.0130	-.0810	-.2860
135.000	1.3360							.0460		.2770		.1220		-.0980	
150.000	1.3360		.6070	.1370	-.2230	-.3030	-.3920	.0410	.2250	.3340	-.2110	.0980	.0480	-.1170	-.2860
165.000	1.3360			.1350	-.2220	-.3020	-.3870	.0480	.2250	.3690	-.2490	.0910			-.2890
180.000	1.3360	1.2620	.6150	.1310	-.2250	-.2970	-.3840	.0490	.2230	.4550	-.2440	.0680	.0180	-.1120	-.2820
270.000	1.3360	1.2240													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0980	-.0490	-.0980
30.000	-.0420	-.0380	-.0480
60.000	-.0290	-.0490	-.1220
90.000			-.1590
120.000	.1970	.0980	-.1930
135.000	.1490	.0390	-.1440
150.000	.1390	.0140	-.1880
165.000		-.1500	-.1930
180.000	.1740		

AMES 11-FOOT 1A9 CBA + S3 + T9 EXTERNAL TANK (REMOTE)

MACH (S) = 1.172 ALPHA(S) = -.030

SECTION (33)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L=	.0000	.0009	.0492	.1098	.1748	.1905	.2121	.2338	.2874	.3412	.3990	.4609	.9029	.9595	.0372
PHI															
.000	1.3335	1.2290	.5680	.0930	-.2910	-.3590	-.4210	-.4960	.1690	.1590	-.0480	-.2730	-.0910	.0480	.0410
30.000	1.3335		.5820	.0880	-.2810	-.3580	-.4260	-.3960	.1290	.1220	.1780	-.2180	-.0590	.0420	-.0210
60.000	1.3335		.5900	.0910	-.2590	-.3590	-.4220	-.3360	.2780	-.0250	-.0560	-.0540	-.0110	.0160	-.0110
90.000	1.3335	1.2230	.5690	.0960	-.2530	-.3350	-.4230	.0290	.9560	-.6890	-.4490	.1290	-.0660	-.1180	-.0840
120.000	1.3335		.5570	.0980	-.2580	-.3330	-.4150	-.4060	.3990	.2480	-.3510	.1990	.0260	-.0830	-.2930
135.000	1.3335							.0990		.2540		.1470		-.0480	
150.000	1.3335		.5620	.1010	-.2590	-.3350	-.4140	-.4220	.1850	.3140	-.1480	.1660	-.0490	-.0930	-.2420
165.000	1.3335			.0980	-.2590	-.3330	-.4050	.0980	.1690	.3330	-.1890		.0720		-.2420
180.000	1.3335	1.2230	.5660	.0920	-.2660	-.3520	-.3990	.0420	.1650	.3580	-.1910	-.0930	.0260	-.0780	-.2810
270.000	1.3335	1.2230													

X/L=	.9449	.9528	.9690
PHI			
.000	-.0480	-.0510	-.0780
30.000	-.0480	-.0370	-.0510
60.000	-.0080	-.0380	-.1070
90.000			-.1580
120.000	.1140	.0730	-.1020
135.000	.1330	.0810	-.1120
150.000	.1340	.0170	-.1370
165.000		-.1830	-.1650
180.000	.1680		

MACH (S) = 1.102 ALPHA(S) = 1.980

SECTION (33)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L=	.0000	.0009	.0492	.1098	.1748	.1905	.2121	.2338	.2874	.3412	.3990	.4609	.9029	.9595	.0372
PHI															
.000	1.3339	1.2830	.0170	.1390	-.2130	-.2940	-.3670	-.3390	.1830	.1790	-.0290	-.2810	-.0560	.0420	.0990
30.000	1.3339		.0040	.1230	-.2280	-.3140	-.3690	-.3350	.1690	.1480	-.0980	-.1890	-.0390	.0160	-.0190
60.000	1.3339		.9880	.1040	-.2370	-.3190	-.4010	-.1660	.3010	.0350	-.4580	-.0010	-.0140	.0290	.0010
90.000	1.3339	1.2190	.9820	.0880	-.2550	-.3350	-.4290	.0280	.9510	-.6960	-.4540	.1480	-.0390	-.1120	-.0990
120.000	1.3339		.9910	.0830	-.2720	-.3450	-.4030	-.3840	.3190	.2030	-.3320	.1680	.0260	-.0830	-.2790
135.000	1.3339							-.0110		.1770		.1440		-.0490	
150.000	1.3339		.9180	.0990	-.2840	-.3580	-.3940	-.0190	.1170	.2740	-.1740	.1490	-.0180	-.0870	-.1970
165.000	1.3339			.0910	-.2880	-.3800	-.3810	-.0110	.1210	.2920	-.1220		.0610		-.1920
180.000	1.3339	1.1890	.9130	.0860	-.2910	-.3990	-.3740	-.0190	.1290	.2910	-.0960	.1290	.0080	-.0480	-.1870
270.000	1.3339	1.2220													

X/L=	.9449	.9528	.9690
PHI			

MACH = [illegible] = 1.172 ALPHA(B) = 1.99

SECTION : 11EXTERNAL TANK DEPENDENT VARIABLE CP

X/L=	.7449	.8976	.9299
PHI			
.000	-.0313	-.0349	-.0719
30.000	-.[illegible]	-.[illegible]	-.[illegible]
60.000	-.[illegible]	-.[illegible]	-.[illegible]
90.000			-.1697
120.000	.0468	.0378	-.0749
135.000	.1117	.0741	-.0[illegible]
150.000	.[illegible]	.0221	-.[illegible]
165.000		-.1667	-.1[illegible]
180.000	.1[illegible]		

MACH = 31 = 1.172 ALPHA(B) = 3.99

SECTION : 11EXTERNAL TANK DEPENDENT VARIABLE CP

X/L=	.[illegible]	.9909	.9452	.1798	.1784	.1909	.2121	.2338	.2876	.3412	.3997	.4489	.5927	.3585	.0372
PHI															
.000	1.3240	1.2919	.8871	.1850	-.1780	-.2809	-.3609	-.3900	.2180	.1991	-.[illegible]	-.[illegible]	-.0590	.2810	.0890
30.000	1.3240		.8491	.1660	-.1990	-.2771	-.3771	-.3110	.2390	.1899	-.[illegible]	-.1660	-.[illegible]	.2221	.[illegible]
60.000	1.3240		.8054	.1200	-.2240	-.3030	-.3970	-.2330	.3370	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]
90.000	1.3240	1.2100	.3540	.0690	-.2870	-.3400	-.4[illegible]	.0220	.5390	-.5280	-.[illegible]	.[illegible]	.[illegible]	.[illegible]	-.[illegible]
120.000	1.3240		.9[illegible]	.[illegible]	-.2990	-.3660	-.4480	.0160	.2500	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.[illegible]	-.[illegible]
135.000	1.[illegible]							-.[illegible]		.[illegible]		.[illegible]		-.[illegible]	
150.000	1.[illegible]		.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.[illegible]	-.[illegible]
165.000	1.[illegible]			.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.[illegible]		.[illegible]		-.[illegible]
180.000	1.[illegible]	1.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.[illegible]	-.[illegible]
270.000	1.3240	1.2130													

X/L=	.7449	.8928	.9299
PHI			
.000	-.[illegible]	-.[illegible]	.[illegible]
30.000	.[illegible]	-.[illegible]	-.[illegible]
60.000	.[illegible]	-.[illegible]	-.[illegible]
90.000			-.[illegible]
120.000	.[illegible]	.[illegible]	-.[illegible]
135.000	.[illegible]	.[illegible]	-.[illegible]
150.000	.[illegible]	.[illegible]	-.[illegible]
165.000		-.[illegible]	-.[illegible]
180.000	.[illegible]		

AMES 11-FT IA9 CRA + 93 + T9 EXTERNAL TANK (ADAPTOR)

MACH (3) = 1.152 ALPHAT(8) = 5.970

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1915	.2121	.2336	.2874	.3412	.3999	.4489	.5127	.5965	.6378
PHI															
.000	1.3170	1.3145	.7180	.2330	-.1360	-.2240	-.3280	-.2850	.2390	.2191	[illegible]	-.1840	-.0380	-.0010	.0780
30.000	1.3150		.6880	.2110	-.1690	-.2480	-.3500	-.2850	.2460	.2750	[illegible]	-.0920	-.0330	.0120	.0110
60.000	1.3170		.6290	.1460	-.2590	-.2890	-.3870	-.2850	.3530	.1110	[illegible]	-.0910	-.0410	.0130	.0370
90.000	1.3150	1.1930	.5440	.0770	-.2840	-.3470	-.4370	.0100	.5160	-.5620	[illegible]	-.1230	.0330	.0240	-.1370
120.000	1.3150		.4880	.0420	-.3160	-.3770	-.4630	-.0190	.2310	-.1330	[illegible]	[illegible]	[illegible]	.0190	-.1470
135.000	1.3170							-.0500		.0760		.0960		-.0490	
150.000	1.3150		.4310	-.0210	-.3420	-.4100	-.1080	-.0640	.0660	.2760	-.1110	.0110	.0480	-.0630	-.1330
165.000	1.3170			-.0380	-.3430	-.4130	-.0650	-.0450	.0570	.2550	[illegible]	.0420			-.1360
180.000	1.3170	1.0860	.4230	-.0480	-.3520	-.4170	-.0480	-.0360	.0640	.2560	[illegible]	.0220	-.0240	-.0210	-.1210
270.000	1.3150	1.1990													

X/LT	.7449	.8528	.9290
PHI			
.000	.0040	-.0270	.0300
30.000	.0490	-.0280	.0090
60.000	.1110	-.0230	-.0530
90.000			-.2110
120.000	.0750	.1320	-.0550
135.000	.0940	.1240	-.0540
150.000	.1170	.0810	-.0570
165.000		-.1190	-.0910
180.000	.1390		

MACH (3) = 1.151 ALPHAT(9) = 7.940

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1915	.2121	.2336	.2874	.3412	.3999	.4489	.5127	.5965	.6378
PHI															
.000	1.2830	1.3230	.7620	.2790	-.0950	-.1880	-.2970	-.2290	.2480	.2370	.0640	-.0930	-.0180	-.0060	.0790
30.000	1.2830		.7230	.2490	-.1400	-.2130	-.3280	-.2570	.2750	.2240	-.0370	-.0480	-.0320	-.0010	.0090
60.000	1.2830		.6300	.1560	-.1980	-.2820	-.3820	-.2760	.39	.1580	-.2020	-.0460	-.0390	.0250	.0390
90.000	1.2830	1.1710	.5240	.0640	-.2770	-.3690	-.4590	-.0040	.4610	-.6030	-.5260	-.2460	.0110	.0270	-.0670
120.000	1.2830		.4530	-.0160	-.3400	-.4100	-.4890	-.0480	.1600	-.1940	-.2660	-.0780	.0750	.0190	-.1180
135.000	1.2830							-.0540		.0260		.0430		-.0120	
150.000	1.2830		.3800	-.0580	-.3720	-.4360	-.1380	-.0780	.0290	.1860	-.0550	.0550	.0640	-.0210	-.1020
165.000	1.2830			-.0750	-.3770	-.4370	-.0780	-.0640	.0260	.2120	.0050		.0640		-.0930
180.000	1.2830	1.0270	.3660	-.0960	-.3800	-.4390	-.0810	-.0590	.0450	.2130	.0060	.0530	.0720	-.0190	-.0910
270.000	1.2830	1.1780													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-FOOT 1A9 CRA + 93 + 79 EXTERNAL TANK (80XT02)

MACH (3) = 1.151 ALPHAT(9) = 7.940

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	.0230	-.0700	.0390
30.000	.0190	-.0640	.0180
60.000	.1130	.0130	-.0360
90.000			-.1740
120.000	.0780	.1800	-.1250
135.000	.1010	.1430	-.0490
150.000	.1230	.1130	-.0490
165.000		-.0630	-.0690
180.000	.1420		

MACH (4) = 1.249 ALPHAT(1) = -8.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1909	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5589	.6372
PHI															
.000	1.3780	1.1080	.4330	-.0920	-.2710	-.3280	-.4120	-.3540	.0140	.0990	.0070	-.2540	-.2230	-.0850	.0310
30.000	1.3780		.4410	.0080	-.2670	-.3250	-.4160	-.3580	-.0320	.0270	-.1580	-.2080	-.1730	-.0630	-.0340
60.000	1.3780		.4970	.0530	-.2390	-.3160	-.3950	-.3400	-.0050	-.2720	-.4820	-.3580	-.0910	-.1150	-.0780
90.000	1.3780	1.2580	.5690	.1320	-.1690	-.2690	-.3500	-.2920	.9360	-.3540	-.3260	-.4170	-.3240	-.1510	-.0110
120.000	1.3780		.8920	.2300	-.1040	-.1970	-.2890	-.2350	.9040	.3510	.0210	.0480	.1480	-.0180	-.0730
135.000	1.3780							-.2170		.4690		.0440		-.0280	
150.000	1.3780		.7840	.3150	-.0470	-.1330	-.2250	-.1670	.8210	.4850	-.0170	.1460	.1480	-.0480	-.0730
165.000	1.3780			.3350	-.0220	-.1161	-.2140	-.1720	.8270	.5060	-.1020		.1470		-.0170
180.000	1.3780	1.4170	.8200	.3380	-.0180	-.1110	-.2110	-.1680	.8400	.6950	-.1430	-.0200	.1570	-.0410	-.1920
270.000	1.3780	1.2520													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0290	-.0400	-.0380
30.000	-.0290	-.0380	-.0490
60.000	-.0110	-.0160	-.0240
90.000			-.0920
120.000	-.0940	.0830	-.1480
135.000	-.1590	.0900	-.2030
150.000	-.1830	.0840	-.2270
165.000		-.0230	-.2250
180.000	-.1890		

ANES 11-??? IA9 OEA + 33 + 79 EXTERNAL TANK (REWT02)

MACH (4) = 1.249 ALPHAT(2) = -8.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0009	.045.	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.399?	.4489	.5027	.5585	.8372
PHI															
.000	1.3920	1.1830	.4750	.0450	-.2480	-.3090	-.3880	-.3340	.0090	.1210	.0240	-.2110	-.2580	-.0680	.0290
30.000	1.3920		.4850	.0480	-.2390	-.3010	-.3860	-.3370	.0020	.0650	-.114?	-.2840	-.1230	-.0840	-.0280
60.000	1.3920		.5330	.0860	-.2100	-.2670	-.3640	-.3230	.1380	-.1510	-.5542	-.1???	-.0210	-.0900	-.0???
90.000	1.3920	1.2720	.8040	.1490	-.1???	.2550	-.3330	-.2660	.5520	-.3430	-.3???	-.4???	-.2310	-.3140	-.122?
120.000	1.3920		.8760	.2190	-.1170	-.1940	-.2790	-.2270	.4480	.3110	-.0470	-.????	.1820	.????	-.1930
133.000	1.3920							-.2210		.?290		.0???		-.0120	
150.000	1.3920		.7330	.2820	-.0690	-.1540	-.2440	-.2120	.2080	.4710	-.0410	.0160	.1810	-.0310	-.1930
65.000	1.3920			.2940	-.0560	-.1470	-.2310	-.1920	.2920	..?70	-.0650		.17e9		-.????
180.000	1.3920	1.3910	.7710	.2930	-.0530	-.1380	-.2290	-.1870	.3030	.6100	-.1510	-.0480	.1920	-.0350	-.1760
270.000	1.3920	1.2710													

X/L?	.7449	.8526	.9290
PHI			
.000	-.?180	-.0390	-.0890
30.000	-.0170	-.0870	-.0890
60.000	-.0870	-.0820	-.0450
90.000			-.0920
120.000	-.0990	.1030	-.1190
133.000	-.1090	.1320	-.1720
150.000	-.1910	.0990	-.1840
165.000		-.0051	-.1840
180.000	-.1900		

MACH (4) = 1.249 ALPHAT(3) = -3.980

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3990	.4489	.5027	.5585	.8372
PHI															
.000	1.4070	1.2180	.5230	.0820	-.2190	-.2820	-.3610	-.3270	-.0240	.1420	.0380	-.1890	-.2340	-.0920	.0220
30.000	1.4070		.5330	.0850	-.2170	-.2770	-.3650	-.3190	.0220	.0830	-.?e?0	-.2??1	-.1???	-.0???	-.0250
60.000	1.4070		.5650	.1130	-.1940	-.2720	-.3470	-.3050	.1550	-.0580	-.?150	-.????	-.0?1?	-.?e??	-.0920
90.000	1.4070	1.2980	.8130	.1540	-.1e??	-.2420	-.3290	-.2460	.5550	-.3190	-.?e40	-.4???	-.1e1?	-.?e??	-.1340
120.000	1.4070		.8800	.1990	-.1260	-.2080	-.2900	-.2450	.2570	.2920	-.1040	-.0???	.1440	.1??	-.1990
133.000	1.4070							-.2460		.3560		.0190		.1?40	
150.000	1.4070		.7050	.2430	-.1030	-.1840	-.2680	-.2370	.2550	.4010	-.0170	-.?440	.0761	-.????	-.1810
165.000	1.4070			.2490	-.0950	-.1780	-.2610	-.2260	.2930	.4160	-.?940		.121		-.1750
180.000	1.4070	1.3890	.7210	.2440	-.0930	-.1780	-.2610	-.2250	.2620	.4210	-.?e??	-.????	.172	-.?e??	-.1810
270.000	1.4070	1.2850													

X/L?	.7449	.8526	.9290

ANL3 11-797 IA9 CBA + 53 + T9 EXTERNAL TANK (RBNT02)

MACH (4) = 1.249 ALPHAT(3) = -3.90

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0080	-.0340	-.0310
30.000	-.0090	-.023	-.0150
60.000	-.0310	-.0260	-.0380
90.000			-.0790
120.000	-.0780	.1230	-.0800
135.000	-.1520	.1240	-.1410
150.000	-.1810	.1030	-.1350
165.000		-.0080	-.1560
180.000	-.2900		

MACH (4) = 1.249 ALPHAT(4) = -1.950

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0004	.0452	.1033	.1744	.1975	.2121	.2338	.2874	.3412	.3990	.4489	.5027	.5585	.6372
PHI															
.000	1.4150	1.2825	.5720	.1180	-.1990	-.2840	-.3470	-.3030	-.0910	.1940	.0720	-.1750	-.2370	-.0490	.0120
30.000	1.4150		.5740	.1270	-.1350	-.2670	-.3480	-.3030	.0490	.0660	-.0890	-.2540	-.0930	-.0870	-.0240
60.000	1.4130		.5940	.1330	-.1860	-.2540	-.3380	-.2930	.1420	.0220	-.4520	-.0850	.0140	-.0560	-.0290
90.000	1.4150	1.2980	.6200	.1560	-.1640	-.2450	-.3250	-.2990	.5630	-.3090	-.8040	-.3810	-.0600	-.2880	-.1590
120.000	1.4150		.6390	.1780	-.1450	-.2240	-.3160	-.2490	.2940	.2170	-.1750	-.0720	.0490	.0290	-.1780
135.000	1.4150							-.2470		.3230		-.1080		.0290	
150.000	1.4150		.6580	.1990	-.1330	-.2170	-.2950	-.2450	.2130	.3760	-.0230	-.1190	.2150	.0290	-.1840
165.000	1.4150			.2010	-.1310	-.2120	-.2980	-.2440	.2080	.3710	-.0250		-.0390		-.1900
180.000	1.4150	1.3380	.6870	.1980	-.1320	-.2120	-.2930	-.2490	.2070	.3790	-.0490	-.1320	-.0690	.0320	-.1910
195.000	1.4150	1.2980													

X/LT	.7449	.8528	.9290
PHI			
.000	.0020	-.0280	-.0330
30.000	.0020	-.0140	-.0080
60.000	-.0250	-.0140	-.0330
90.000			-.0820
120.000	-.0530	.1330	-.0830
135.000	-.1310	.1410	-.1020
150.000	-.1450	.1180	-.1010
165.000		.0010	-.1020
180.000	-.1690		

AMES 11-93T IA9 OEA • 93 • T9 EXTERNAL TANK

MACH (4) = 1.248 ALPHA(3) = .040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4175	1.3020	.6180	.1620	-.1590	-.2270	-.3220	-.2750	-.1930	.1950	.0930	-.1440	-.2160	-.0580	.0080
30.000	1.4175		.6190	.1670	-.1590	-.2290	-.3260	-.2730	.0690	.1220	-.0850	-.1980	-.0480	-.0680	-.1090
60.000	1.4175		.6180	.1890	-.1560	-.2240	-.3170	-.2760	.1460	.0750	-.1430	-.2440	-.1110	-.0660	-.1330
90.000	1.4175	1.3000	.6240	.1640	-.1550	-.2410	-.3170	-.2480	.5830	.2990	-.3310	-.2630	.0240	-.1120	-.1590
120.000	1.4175		.6180	.1810	-.1570	-.2370	-.3140	-.2490	.3020	.1950	-.2360	-.0330	.1760	.0160	-.1610
135.000	1.4175							-.2570		.2960		-.1610		.0360	
150.000	1.4175		.6190	.1670	-.1540	-.2370	-.3170	-.2490	.1620	.2910	-.0130	-.1330	-.0830	.0410	-.1360
165.000	1.4175			.1620	-.1600	-.2380	-.3140	-.2490	.1930	.2130	-.0410		-.0230		-.1380
180.000	1.4175	1.3040	.6210	.1550	-.1600	-.2370	-.3150	-.2570	.1360	.3230	-.0330	-.0330	-.1890	.0830	-.1270
270.000	1.4175	1.2990													

X/LT	.7449	.8328	.9290
PHI			
.000	.0090	-.0180	-.0440
30.000	.0080	-.0090	-.0170
60.000	-.0020	-.0180	-.0310
90.000			-.0970
120.000	-.0330	.1480	-.0810
135.000	-.1130	.1420	-.0800
150.000	-.1170	.1170	-.0800
165.000		-.0100	-.0620
180.000	-.1270		

MACH (4) = 1.244 ALPHA(8) = 2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4190	1.3390	.8720	.2360	-.1160	-.1910	-.2900	-.2580	-.1090	.2230	.0870	-.1250	-.1900	-.0650	-.0010
30.000	1.4190		.8640	.2090	-.1290	-.1980	-.2980	-.2580	.0850	.1480	-.0010	-.1460	-.0840	-.0840	-.0480
60.000	1.4190		.8460	.1820	-.1370	-.2190	-.3060	-.2670	.1740	.1440	-.0990	-.1900	-.0120	-.0360	-.0890
90.000	1.4190	1.2970	.8220	.1840	-.1510	-.2390	-.3220	-.2590	.5810	-.3090	-.4990	.0230	.0350	.0010	-.0390
120.000	1.4190		.9910	.1450	-.1680	-.2530	-.3260	-.2530	.2900	.0830	-.2920	-.0810	.0490	-.0480	-.1190
135.000	1.4190							-.2620		.2580		-.0930		-.0490	
150.000	1.4190		.9790	.1380	-.1810	-.2620	-.3290	-.2330	.1780	.2340	-.0110	-.1620	.0240	-.0470	-.1230
165.000	1.4190			.1270	-.1870	-.2650	-.3330	-.2570	.1280	.2160	-.0110		-.0690		-.1220
180.000	1.4190	1.2840	.9740	.1170	-.1860	-.2670	-.3420	-.2620	.1230	.2090	-.0130	-.0330	-.2410	.1190	-.1190
270.000	1.4190	1.3000													

X/L	.7449	.8328	.9290
PHI			

AMES 11-FT TAS ORA • S3 • F9 EXTERNAL TANK

MACH (A) = 1.744 ALPHA(B) = 2.03

SECTION : 1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.7669	.8529	.9890
PHI			
.000			-.2380
30.000			-.2030
60.000			-.1290
90.000			-.1140
120.000			-.0340
150.000			-.0080
180.000			-.0310
183.000			-.0640
189.000			

MACH (A) = 1.289 ALPHA(B) = 3.97

SECTION : 1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0079	.0492	.1098	.1784	.2121	.2538	.2874	.3412	.3997	.4469	.5027	.5583	.6378
PHI														
.000														
30.000														
60.000														
90.000														
120.000														
135.000														
150.000														
169.000														
180.000														
200.000														

X/L?	.7669	.8529	.9890
PHI			
.000	.0070	.0210	-.0010
30.000	.0080	.0280	-.0010
60.000	.0090	.0400	.0000
90.000			-.1030
120.000	-.0250	.1350	.0040
139.000	-.0290	.1350	.0390
150.000	-.0180	.1100	.0140
169.000		-.0180	-.0650
180.000	-.0430		

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AMES 11-FT 1A9 ORA + 93 + F9 EXTERNAL TANK (RUN102)

MACH (A) = 1.243 ALPHA(8) = 5.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0009	.0432	.1090	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3899	1.3939	.7899	.3010	-.0487	-.1239	-.2409	-.2990	-.1629	.2490	.1599	-.0390	-.1149	-.0430	.0990
30.000	1.3899		.7499	.2820	-.0660	-.1439	-.2599	-.2119	.0389	.2419	.0369	-.1149	-.0679	-.0549	-.0489
60.000	1.3949		.6899	.2119	-.1149	-.1999	-.2749	-.2319	.2439	.2299	-.2179	-.0749	-.0599	-.0439	-.0199
90.000	1.3999	1.2799	.6099	.1519	-.1869	-.2569	-.3339	-.2869	.9699	-.3859	-.3599	-.1049	-.0689	.0319	-.0199
120.000	1.3949		.5299	.1139	-.2309	-.3019	-.3709	-.3359	.1699	-.4059	-.2279	-.1179	.0229	.0899	-.0699
135.000	1.3949							-.3229		.1539		-.1179		.0481	
150.000	1.3949		.4919	.0699	-.2369	-.3139	-.3999	-.3269	.0469	.1869	.2299	-.1359	-.1799	.0179	-.0889
165.000	1.3949			.0439	-.2479	-.3179	-.3919	-.3179	.0599	.1769	.1849		-.1119		-.0489
180.000	1.3949	1.1839	.4789	.0429	-.2449	-.3169	-.3889	-.3159	.0279	.2059	.1489	-.1969	-.2199	.1599	-.0499
270.000	1.3899	1.2759													

X/L? .7449 .8528 .9290

PHI

.000	.0929	.0399	.0299
30.000	.0439	.0379	.0219
60.000	.0799	.0379	.0019
90.000			-.0869
120.000	.0189	.1589	.0349
135.000	.0439	.1419	.0579
150.000	.0699	.1049	.0379
165.000		-.0329	-.0079
180.000	.0399		

MACH (A) = 1.247 ALPHA(9) = 7.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0009	.0432	.1090	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3799	1.4099	.8179	.3480	-.0119	-.0959	-.1979	-.1589	-.0909	.3119	.1799	-.0269	-.0899	-.0149	.0319
30.000	1.3799		.7809	.3189	-.0449	-.1229	-.2299	-.1799	-.0259	.2989	.0819	-.0899	-.0959	-.0299	-.0359
60.000	1.3799		.6929	.2289	-.1059	-.1789	-.2689	-.2379	.4109	.2479	-.1629	.0169	-.0249	-.0299	-.0139
90.000	1.3799	1.2909	.5899	.1379	-.1799	-.2519	-.3289	-.2959	.5149	-.3709	-.3939	-.0969	-.0849	.0319	.0199
120.000	1.3799		.4939	.0809	-.2369	-.3009	-.3719	-.3359	.1059	-.1459	-.2929	-.1339	.0369	.0899	-.0459
135.000	1.3799							-.2399		.0359		-.1979		.0899	
150.000	1.3799		.4489	.0209	-.2639	-.3279	-.3999	-.3419	.0099	.1349	.0059	-.1449	.0149	.0389	-.0399
165.000	1.3799			.0099	-.2719	-.3269	-.3929	-.3369	.0109	.1729	.0359		-.1059		-.0499
180.000	1.3799	1.1099	.4319	-.0029	-.2739	-.3299	-.3999	-.3399	.0099	.1739	.0499	-.1749	-.2119	.1419	-.0439
270.000	1.3799	1.2589													

X/L? .7449 .8528 .9290

PHI

AMES 11-FT? 1A9 OP4 • 53 • T9 EXTERNAL TANK (RBNTOP)

MACH (4) = 1.247 ALPHAT(9) = 7.980

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	.0010	.0460	.0420
30.000	.0210	.0520	.0410
60.000	.0230	.0550	.0080
90.000			-.0720
120.000	.0540	.1760	.0620
135.000	.0800	.1760	.0570
150.000	.1120	.1170	.0580
165.000		-.0330	.0320
180.000	.1370		

MACH (5) = 1.401 ALPHAT(1) = -8.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4410	1.1520	.4430	.0480	-.1990	-.2490	-.3200	-.2820	-.1780	.0930	.0470	-.1340	-.2420	-.1160	.0210
30.000	1.4410		.4560	.0570	-.1930	-.2430	-.3190	-.2830	-.0550	.0010	-.0830	-.2290	-.1360	-.0900	-.0330
60.000	1.4410		.5110	.1030	-.1610	-.2310	-.3000	-.2740	.0260	-.1810	-.4980	-.2930	-.0010	-.0330	-.0820
90.000	1.4410	1.3050	.6050	.1760	-.1110	-.1890	-.2600	-.2260	.3860	-.1900	-.2940	-.2580	-.0140	-.2350	-.1120
120.000	1.4410		.7050	.2660	-.0420	-.1210	-.1960	-.1700	.3550	.4300	.0650	.0610	.1580	.1230	-.1120
135.000	1.4410							-.1450		.4760		.1090		.1060	
150.000	1.4410		.7980	.3490	.0160	-.0640	-.1480	-.1160	.2570	.4560	.1220	.0730	.1540	.0880	-.0930
165.000	1.4410			.3680	.0340	-.0470	-.1320	-.1040	.1790	.5130	.0460		.1350		-.0900
180.000	1.4410	1.4680	.8370	.3670	.0370	-.0420	-.1310	-.0990	.0140	.6140	.0440	.0740	.1780	.0840	-.0930
270.000	1.4410	1.3030													

X/LT	.7449	.8528	.9290
PHI			
.000	.0100	-.0140	-.0210
30.000	.0090	-.0220	-.0290
60.000	-.0250	-.0270	.0020
90.000			-.0350
120.000	-.0840	.0820	-.1050
135.000	-.1220	.0720	-.1530
150.000	-.1300	.0890	-.2180
165.000		.0790	-.2270
180.000	-.1390		

AMES 11-7D7 IA9 CPA + S3 + T9 EXTERNAL TANK (RBNTD2)

MACH (5) = 1.398 ALPHAT(2) = -5.970

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4610	1.2100	.4890	.0830	-.1790	-.2320	-.3030	-.2670	-.1830	.1140	.0630	-.1160	-.2380	-.1160	.0190
30.000	1.4610		.5010	.0880	-.	-.2250	-.3020	-.2670	-.0630	.0210	-.0840	-.2090	-.0980	-.0880	-.0300
60.000	1.4610		.5460	.1280	-.1-..	-.2150	-.2800	-.2550	.1010	-.0800	-.4650	-.1440	-.0770	.0000	-.0540
90.000	1.4610	1.3220	.5150	.1820	-.1080	-.1810	-.2520	-.2190	.5460	-.1750	-.3730	-.2730	-.0580	-.2210	-.0490
120.000	1.4610		.6890	.2490	-.0550	-.1340	-.2060	-.176.	.3060	.3930	.0210	.0050	.0950	.1100	-.1190
135.000	1.4610							-.1570		.4330		.0570		.0830	
150.000	1.4610		.7590	.3110	-.0140	-.0960	-.1730	-.1410	.2180	.4250	.1240	.0310	.1310	.0860	-.0950
165.000	1.4610			.3240	-.0010	-.0810	-.1620	-.1310	.2120	.4250	.0650		.0750		-.0860
180.000	1.4610	1.4470	.7850	.3200	-.0010	-.0780	-.1610	-.1270	.1860	.4710	.0650	.0620	.0270	.0970	-.0830
270.000	1.4610	1.3240													

X/LT	.7449	.8526	.9290
PHI			
.000	.0170	-.0100	-.0220
30.000	.0170	-.0130	-.0190
60.000	-.0210	-.0350	-.0040
90.000			-.0320
120.000	-.0910	.0880	-.0900
135.000	-.1230	.0760	-.1270
150.000	-.1400	.0850	-.1950
165.000		.0690	-.1940
180.000	-.1500		

MACH (5) = 1.396 ALPHAT(3) = -3.980

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4730	1.2650	.5340	.1140	-.1470	-.2020	-.2790	-.2490	-.1620	.1330	.0840	-.0970	-.2150	-.1130	.0190
30.000	1.4730		.5460	.1280	-.1450	-.2030	-.2790	-.2300	-.0880	.0280	-.0540	-.1490	-.1120	-.0870	-.0480
60.000	1.4730		.5780	.1550	-.1260	-.1940	-.2680	-.2370	.1070	.0060	-.4220	-.1850	-.0240	.0010	-.0480
90.000	1.4730	1.3390	.6270	.1920	-.0970	-.1720	-.2410	-.2130	.5720	-.1620	-.4730	-.2810	-.0330	-.1790	-.0900
120.000	1.4730		.6730	.2360	-.0630	-.1420	-.2150	-.1860	.1910	.3620	-.0330	-.0390	.0130	.1090	-.1130
135.000	1.4730							-.1780		.3270		-.0360		.0480	
150.000	1.4730		.7180	.2780	-.0390	-.1180	-.1940	-.1670	.2170	.3580	.0950	.0150	.0690	.0150	-.0710
165.000	1.4730			.2820	-.0360	-.1100	-.1890	-.1600	.2190	.3610	.0680		.0130		-.0710
180.000	1.4730	1.4220	.7370	.2790	-.0310	-.1100	-.1880	-.1580	.2450	.3470	.0680	.0320	-.0690	.1160	-.0310
270.000	1.4730	1.3360													

X/LT	.7449	.8526	.9290
PHI			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

MACH (3) = 1.398 ALPHAT(3) = -3.980

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	.0180	-.0070	-.0180
30.000	.0170	-.0090	.0010
60.000	-.0120	-.0420	-.0140
90.000			-.0380
120.000	-.1170	.1270	-.0390
135.000	-.1170	.1140	-.0440
150.000	-.1390	.0980	-.1350
165.000		.0610	-.1700
180.000	-.1450		

MACH (3) = 1.398 ALPHAT(4) = -1.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4830	1.3130	.5860	.1540	-.1200	-.1870	-.2680	-.2370	-.1670	.1560	.1020	-.0810	-.1920	-.1120	.0050
30.000	1.4830		.5900	.1560	-.1260	-.1860	-.2630	-.2330	-.0840	.0250	.0650	-.1530	-.1090	-.0810	-.0480
60.000	1.4830		.6080	.1700	-.1140	-.1860	-.2590	-.2280	.1030	.0060	-.3710	-.1340	-.0090	.0130	-.0470
90.000	1.4830	1.3480	.6330	.1920	-.1000	-.1760	-.2430	-.2100	.5840	-.1530	-.5270	-.2410	-.2070	-.1170	-.1550
120.000	1.4830		.6520	.2130	-.0850	-.1610	-.2290	-.1990	.1860	.2890	-.0990	-.0690	.0100	.0950	-.1180
135.000	1.4830							-.1960		.3790		-.1190		-.0010	
150.000	1.4830		.6760	.2350	-.0720	-.1490	-.2200	-.1890	.0910	.3880	.1150	-.0170	.0180	-.0510	-.0550
165.000	1.4830			.2350	-.0710	-.1440	-.2170	-.1870	.1520	.3720	.0790		-.0870		-.0390
180.000	1.4830	1.3910	.6880	.2290	-.0700	-.1460	-.2190	-.1850	.1840	.3010	.0750	.0350	-.1220	-.0480	-.0290
270.000	1.4830	1.3490													

X/LT	.7449	.8528	.9290
PHI			
.000	.0070	-.0130	-.0180
30.000	.0070	-.0120	.0070
60.000	-.0140	-.0300	-.0070
90.000			-.0720
120.000	-.0800	.1750	-.0740
135.000	-.1060	.1530	-.0420
150.000	-.1460	.1250	-.0740
165.000		.0690	-.1040
180.000	-.1380		

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (REVNT02)

MACH (5) = 1.398 ALPHAT(5) = .040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5383	.6372
PHI															
.000	1.4870	1.3390	.6320	.1960	-.1000	-.1630	-.2430	-.2160	-.1480	.1790	.1250	-.0540	-.1810	-.1080	.0050
30.000	1.4870		.6330	.1920	-.1040	-.1640	-.2480	-.2150	-.1060	.0620	.1020	-.1120	-.1130	-.0580	-.0370
60.000	1.4870		.6340	.1900	-.1000	-.1700	-.2460	-.2150	.1240	.1540	-.3180	-.1060	.0020	.0100	-.0370
90.000	1.4870	1.3490	.6340	.1930	-.1010	-.1740	-.2450	-.2120	.5540	-.1440	-.5510	-.0500	-.0620	.0090	-.1230
120.000	1.4870		.6260	.1930	-.0990	-.1710	-.2410	-.2070	.1680	.2030	-.1420	-.0740	.0200	.0920	-.1070
135.000	1.4870							-.2070		.3520		-.1820		.0200	
150.000	1.4870		.6320	.2010	-.1000	-.1700	-.2390	-.2070	.1190	.3100	.1290	-.0310	-.0440	-.0820	-.0070
165.000	1.4870			.1960	-.1040	-.1690	-.2400	-.2090	.1270	.3220	.0910		-.1360		.0150
180.000	1.4870	1.3510	.6340	.1890	-.1030	-.1700	-.2400	-.2080	.1470	.2470	.0900	.0360	-.1490	-.0810	.0150
270.000	1.4870	1.3520													

X/LT	.7449	.8526	.9290
PHI			
.000	.0140	-.0020	-.0050
30.000	.0140	-.0020	.0180
60.000	.0140	-.0170	.0010
90.000			-.0650
120.000	-.0370	.2030	-.0180
135.000	-.0930	.1810	-.0180
150.000	-.1290	.1520	-.0420
165.000		.0770	-.0430
180.000	-.1310		

MACH (5) = 1.393 ALPHAT(8) = 2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5383	.6372
PHI															
.000	1.4800	1.3930	.6840	.2370	-.0360	-.1350	-.2230	-.1950	-.1290	.2010	.1480	-.0310	-.1330	-.1040	-.0080
30.000	1.4800		.6760	.2290	-.0740	-.1400	-.2250	-.1960	-.0960	.0830	.1310	-.0820	-.1370	-.0430	-.0380
60.000	1.4800		.6360	.2100	-.0820	-.1590	-.2350	-.2040	.1480	.2130	-.2730	-.2070	.0310	.0050	-.0350
90.000	1.4800	1.3460	.6350	.1950	-.0980	-.1750	-.2460	-.2090	.5460	-.1440	-.5410	-.0120	.0580	.0320	-.0390
120.000	1.4800		.6040	.1740	-.1110	-.1860	-.2520	-.2190	.2340	.1410	-.2400	-.0340	.0310	.0470	-.0370
135.000	1.4800							-.2250		.1940		-.1450		.0110	
150.000	1.4800		.5880	.1680	-.1240	-.1920	-.2610	-.2250	.1410	.1820	.0930	-.0580	-.0810	-.0910	-.0080
165.000	1.4800			.1560	-.1260	-.1950	-.2660	-.2290	.1300	.1970	.0890		-.1090		.0140
180.000	1.4800	1.3080	.5870	.1520	-.1300	-.1980	-.2690	-.2300	.1060	.2110	.0810	.0270	-.1690	-.0890	.0320
270.000	1.4800	1.3500													

X/LT	.7449	.8526	.9290
PHI			

MACH (5) = 1.393 ALPHAT(6) = 2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	.0030	.0080	-.0020
30.000	.0030	.0110	.0300
60.000	.0050	.0170	-.0080
90.000			-.0880
120.000	-.0430	.1880	-.0060
135.000	-.0740	.1880	.0040
150.000	-.0930	.1710	.0020
165.000		.0830	-.0530
180.000	-.1130		

MACH (5) = 1.394 ALPHAT(7) = 3.960

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4710	1.4230	.7380	.2810	-.0360	-.1050	-.1980	-.1680	-.1080	.2140	.1670	-.0080	-.1040	-.0910	-.0070
30.000	1.4710		.7170	.2680	-.0520	-.1180	-.2110	-.1770	-.1010	.1160	.0950	-.0360	-.1130	-.0380	-.0480
60.000	1.4710		.6740	.2290	-.0730	-.1460	-.2250	-.2000	.1700	.2690	-.2230	-.1530	.0330	-.0010	-.0280
90.000	1.4710	1.3390	.6270	.1870	-.1040	-.1780	-.2520	-.2160	.5280	-.1640	-.3890	-.0570	.0390	.0270	-.0030
120.000	1.4710		.5750	.1480	-.1300	-.2020	-.2670	-.2350	.1870	.0790	-.3170	-.0660	.0330	.0690	-.0320
135.000	1.4710							-.2430		.1230		-.0790		.0240	
150.000	1.4710		.3480	.1320	-.1490	-.2180	-.2810	-.2470	.1010	.1480	.0770	-.0690	-.0680	-.0060	.0070
165.000	1.4710			.1200	-.1590	-.2220	-.2850	-.2500	.0890	.1670	.0800		-.1490		.0250
180.000	1.4710	1.2610	.5370	.1130	-.1590	-.2260	-.2900	-.2520	.0690	.1730	.0750	.0430	-.1780	-.0080	.0390
270.000	1.4710	1.2430													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0040	.0140	.0090
30.000	-.0040	.0230	.0440
60.000	.0330	.0270	.0180
90.000			-.0800
120.000	-.0200	.1820	.0420
135.000	-.0480	.1930	.0120
150.000	-.0990	.1920	.0380
165.000		.0890	.0020
180.000	-.0890		

AMES 11-707 IA9 CBA + S3 + T9 EXTERNAL TANK (RBNT02)

MACH (5) = 1.398 ALPHAT(8) = 6.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4550	1.4480	.7850	.3310	-.0020	-.0720	-.1660	-.1360	-.0790	.2300	.1880	.0200	-.0680	-.0810	.0110
30.000	1.4550		.7600	.3080	-.0210	-.0890	-.1320	-.1480	-.0850	.1620	.1530	-.0250	-.0720	-.0240	-.0400
60.000	1.4550		.6980	.2450	-.0610	-.1320	-.2110	-.1860	.2020	.3290	-.1690	-.1040	.0390	.0060	-.0180
90.000	1.4550	1.5200	.6200	.1610	-.1070	-.1800	-.2540	-.2190	.5230	-.1880	-.4000	-.1350	-.0270	-.0220	.0120
120.000	1.4550		.5430	.1270	-.1500	-.2160	-.2810	-.2440	.1130	.0080	-.2970	-.0960	.0150	.0500	-.0140
135.000	1.4550							-.2550		.1060		-.0960		.0370	
150.000	1.4550		.5040	.0980	-.1730	-.2370	-.2980	-.2580	.0710	.1190	.0820	-.0620	-.0780	.0100	.0240
165.000	1.4550			.0850	-.1810	-.2420	-.3010	-.2600	.0580	.1340	.1140		-.1420		.0580
180.000	1.4550	1.2070	.4910	.0750	-.1830	-.2470	-.3060	-.2620	.0990	.1430	.1110	.0350	-.1640	-.0650	.0680
270.000	1.4550	1.3280													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0150	.0270	.0440
30.000	-.0150	.0320	.0520
60.000	.0640	.0370	.0330
90.000			-.0620
120.000	.0000	.1910	.0660
135.000	.0000	.1920	.0730
150.000	-.0240	.1900	.0610
165.000		.0780	.0350
180.000	-.0200		

MACH (5) = 1.391 ALPHAT(9) = 7.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	[illegible]	.6372
PHI															
.000	1.4330	1.4680	.8400	.3780	.0390	-.0380	-.1400	-.1060	-.0600	.2350	.2040	.0330	-.0220	-.0170	.0380
30.000	1.4330		.8030	.3490	.0080	-.0640	-.1610	-.1270	-.0790	.1970	.1580	-.0030	-.0350	-.0090	-.0210
60.000	1.4330		.7110	.2610	-.0460	-.1230	-.2070	-.1790	.2160	.3650	-.1170	-.0900	.0350	.0200	.0010
90.000	1.4330	1.3000	.6050	.1740	-.1160	-.1920	-.2660	-.2340	.5210	-.2160	-.4450	-.2910	-.0710	-.0310	.0240
120.000	1.4330		.5120	.1060	-.1710	-.2390	-.3020	-.2680	.0550	-.0890	-.3820	-.1350	.0050	.0390	-.0080
135.000	1.4330							-.2790		.0420		-.1320		.0430	
150.000	1.4330		.4610	.0610	-.1980	-.2630	-.3190	-.2400	.0230	.0940	.0700	-.0670	-.0840	.0140	.0350
165.000	1.4330			.0460	-.2060	-.2660	-.3240	-.1210	.0240	.1120	.0990		-.1490		.0880
180.000	1.4330	1.1500	.4450	.0410	-.2070	-.2670	-.3260	-.1630	.0050	.1150	.1010	.0420	-.1580	-.0100	.0800
270.000	1.4330	1.3090													

X/LT	.7449	.8528	.9290
PHI			

MACH (5) = 1.391 ALPHAT(9) = 7.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0090	.0350	.0470
30.000	-.0090	.0340	.0470
60.000	.0700	.0480	.0460
90.000			-.0530
120.000	.0150	.1880	.0620
135.000	.0150	.1800	.1170
150.000	.0160	.1790	.0670
165.000		.0630	.0090
180.000	.0180		

AMES 11-707 IA9 OA ♦ 53 ♦ T9 EXTERNAL TANK (RBNT03) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.9490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .599 BETAT (1) = -8.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	.9390	.6720	-.0100	-.3800	-.4540	-.4220	-.2930	-.1900	-.1440	-.1510	-.1170	-.1150	-.1010	-.0940	-.0790
30.000	.9390		.0080	-.3660	-.4670	-.4380	-.3470	-.2390	-.2580	-.2560	-.1410	-.1570	-.1320	-.1350	-.1900
60.000	.9390		.2540	-.1780	-.3440	-.3320	-.2670	-.1970	-.3430	-.5130	-.2180	-.1730	-.2280	-.0740	-.0560
90.000	.9390	1.0190	.4460	-.0030	-.1810	-.1480	-.0440	.0630	.0510	-1.3010	-.7290	-.3880	-.2130	-.1640	-.1300
120.000	.9390		.5680	.1240	-.0850	-.0610	.0300	.1240	.2060	.0150	.0240	.0310	.0230	.0320	.0180
135.000	.9390							.1060		.1010		.0330		.0190	
150.000	.9390		.5750	.1270	-.0980	-.0850	-.0060	.0750	.1580	.1390	.0230	.0040	-.0300	-.0280	-.0030
165.000	.9390			.0730	-.1350	-.1230	-.0540	.0490	.1520	.1470	-.0420		-.1380		-.0930
180.000	.9390	1.0160	.4520	.0050	-.1900	-.1750	-.0930	-.0080	.1080	.0630	-.0690	-.2080	-.2260	-.2190	-.1790
270.000	.9390	.6480													

X/LT	.7449	.8526	.9290
PHI			
.000	-.1080	-.1640	-.4740
30.000	-.1100	-.1670	-.4750
60.000	-.1050	-.1660	-.4100
90.000			-.4990
120.000	.0810	-.1280	-.4990
135.000	.0810	-.1000	-.5380
150.000	.0660	-.0880	-.5430
165.000		-.1200	-.4670
180.000	-.1110		

MACH (1) = .598 BETAT (2) = -8.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	.9870	.6980	.0160	-.3650	-.4400	-.4070	-.2800	-.1770	-.1310	-.1350	-.1110	-.1010	-.0870	-.0880	-.0860
30.000	.9870		.0820	-.3680	-.4540	-.4290	-.3230	-.2380	-.2260	-.2340	-.1120	-.1380	-.1090	-.1140	-.1220
60.000	.9870		.2220	-.2110	-.3620	-.3440	-.2670	-.1960	-.3210	-.5040	-.2140	-.1690	-.2230	-.1040	-.0580
90.000	.9870	1.0010	.3880	-.0560	-.2210	-.1890	-.0720	.0460	.0400	-1.3250	-.7470	-.4060	-.2240	-.1590	-.1200
120.000	.9870		.5150	.0730	-.1240	-.1050	-.0010	.1050	.1960	-.0050	-.0020	.0000	-.0060	.0050	.0020
135.000	.9870							.0850		.0770		.0020		-.0060	
150.000	.9870		.5330	.1010	-.1190	-.1100	-.0230	.0660	.1540	.1190	.0200	-.0110	-.0440	-.0350	-.0090

AMES 11-737 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT03)

MACH (1) = .398 BETAT (2) = -6.035

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
180.000	.9870			.0720	-.1470	-.1290	-.0620	.0470	.1550	.1430	-.0410		-.1130		-.0600
180.000	.9870	1.0460	.4750	.0240	-.1770	-.1630	-.0760	.0150	.1300	.0930	-.0410	-.1570	-.1720	-.1580	-.1190
270.000	.9870	.7240													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0940	-.1390	-.4320
30.000	-.0980	-.1570	-.4570
60.000	-.1010	-.1600	-.3960
90.000			-.4450
120.000	.0610	-.1480	-.4850
135.000	.0600	-.1330	-.5150
150.000	.0510	-.1190	-.5160
165.000		-.1650	-.4120
180.000	-.0650		

MACH (1) = .596 BETAT (3) = -4.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0070	.7080	.0290	-.3490	-.4190	-.3820	-.2720	-.1630	-.1220	-.1220	-.1070	-.0870	-.0790	-.0880	-.0910
30.000	1.0070		.0750	-.3470	-.4310	-.4050	-.3030	-.2040	-.1990	-.2020	-.1090	-.1160	-.0990	-.0880	-.0970
60.000	1.0070		.1870	-.2350	-.3620	-.3480	-.2610	-.1790	-.3040	-.4900	-.2130	-.1620	-.1810	-.1370	-.0810
90.000	1.0070	.9730	.3310	-.1000	-.2410	-.2190	-.0880	.0320	.0430	-1.3480	-.7660	-.4240	-.2360	-.1560	-.1140
120.000	1.0070		.4640	.0290	-.1550	-.1460	-.0240	.0800	.1850	-.0240	-.0300	-.0250	-.0270	-.0130	-.0160
135.000	1.0070							.0660		.0560		-.0270		-.0220	
150.000	1.0070		.5300	.0860	-.1300	-.1310	-.0390	.0610	.1470	.1000	-.0050	-.0290	-.0570	-.0440	-.0090
165.000	1.0070			.0780	-.1380	-.1350	-.0640	.0490	.1550	.1330	-.0410		-.0970		-.0380
180.000	1.0070	1.0690	.4930	.0460	-.1560	-.1550	-.0670	.0260	.1530	.1100	-.0340	-.1180	-.1290	-.1080	-.0700
270.000	1.0070	.7870													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0800	-.1340	-.4150
30.000	-.1190	-.1450	-.4450
60.000	-.0890	-.1480	-.4170
90.000			-.4170
120.000	.0420	-.1670	-.4370
135.000	.0430	-.1600	-.4680
150.000	.0330	-.1580	-.4650

AMES 11-7ft IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT03)

MACH (1) = .598 BETAT (3) = -4.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.2080	-.3400
180.000	-.0270		

MACH (1) = .598 BETAT (4) = -.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0007	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0200	.7220	.0370	-.3480	-.4150	-.3800	-.2570	-.1520	-.1080	-.1090	-.0940	-.0740	-.0810	-.0930	-.0310
30.000	1.0200		.0670	-.3620	-.4260	-.3940	-.2780	-.1780	-.1670	-.1740	-.0940	-.0980	-.0790	-.0880	-.0740
60.000	1.0200		.1540	-.2650	-.3690	-.3410	-.2400	-.1610	-.2680	-.4770	-.1990	-.1600	-.1080	-.1580	-.0740
90.000	1.0200	.9400	.2770	-.1550	-.2730	-.2310	-.0940	.0340	.0550	-1.3700	-.7710	-.4380	-.2450	-.1630	-.1030
120.000	1.0200		.4040	-.0330	-.1980	-.1720	-.0450	.0700	.1830	-.0300	-.0440	-.0400	-.0430	-.0290	-.0250
135.000	1.0200							.0590		.0450		-.0450		-.0370	
150.000	1.0200		.4980	.0520	-.1500	-.1440	-.0530	.0560	.1410	.0820	-.0270	-.0460	-.0700	-.0520	-.0140
165.000	1.0200			.0570	-.1440	-.1350	-.0630	.0580	.1590	.1230	-.0470		-.0840		-.0220
180.000	1.0200	1.0840	.5020	.0490	-.1560	-.1400	-.0560	.0470	.1630	.1290	-.0440	-.0850	-.0990	-.0780	-.0370
270.000	1.0200	.8480													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0630	-.1190	-.3970
30.000	-.0670	-.1330	-.4130
60.000	-.0760	-.1500	-.4200
90.000			-.4290
120.000	.0200	-.1830	-.4120
135.000	.0210	-.1790	-.4230
150.000	.0190	-.1930	-.4060
165.000		-.2570	-.2830
180.000	.0010		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT03)

MACH (1) = .598 BETAT (5) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0250	.7170	.0420	-.3470	-.4080	-.3800	-.2540	-.1480	-.1050	-.1060	-.0920	-.0690	-.0540	-.0430	-.0280
30.000	1.0250		.0520	-.3650	-.4130	-.3770	-.2610	-.1560	-.1460	-.1590	-.0910	-.0810	-.0570	-.0560	-.0660
60.000	1.0250		.1130	-.2920	-.3690	-.3380	-.2300	-.1430	-.2420	-.4530	-.1900	-.1560	-.0840	-.1170	-.1040
90.000	1.0250	.8990	.2170	-.2060	-.2940	-.2500	-.1030	.0300	.0600	-1.4780	-.7940	-.4440	-.2540	-.1660	-.1050
120.000	1.0250		.3450	-.0880	-.2340	-.1930	-.0710	.0540	.1750	-.0400	-.0650	-.0560	-.0540	-.0420	-.0320
135.000	1.0250							.0360		.0270		-.0620		-.0530	
150.000	1.0250		.4650	.0220	-.1730	-.1650	-.0760	.0380	.1270	.0520	-.0540	-.0670	-.0840	-.0550	-.0350
165.000	1.0250			.0480	-.1520	-.1510	-.0710	.0420	.1510	.0980	-.0620		-.0890		-.0320
180.000	1.0250	1.0910	.5140	.0540	-.1490	-.1400	-.0580	.0490	.1690	.1360	-.0650	-.0740	-.0850	-.0710	-.0300
270.000	1.0250	.8950													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0340	-.1090	-.4130
30.000	-.0580	-.1160	-.4170
60.000	-.0850	-.1460	-.4330
90.000			-.4910
120.000	.0010	-.1950	-.4570
135.000	.0020	-.2120	-.4400
150.000	.0000	-.2330	-.3580
165.000		-.3170	-.2050
180.000	.0100		

MACH (1) = .598 BETAT (6) = 2.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0230	.7190	.0390	-.3440	-.4170	-.3820	-.2600	-.1560	-.1110	-.1130	-.0940	-.0780	-.0600	-.0550	-.0350
30.000	1.0230		.0370	-.3650	-.4120	-.3700	-.2520	-.1480	-.1220	-.1420	-.0940	-.0850	-.0620	-.0540	-.0610
60.000	1.0230		.0760	-.3140	-.3760	-.3300	-.2180	-.1240	-.2130	-.4370	-.1830	-.1530	-.0770	-.0580	-.0980
90.000	1.0230	.8500	.1590	-.2520	-.3200	-.2660	-.1090	.0300	.0710	-1.4900	-.8000	-.4700	-.2780	-.1930	-.1190
120.000	1.0230		.2770	-.1340	-.2650	-.2250	-.0950	.0350	.1650	-.0530	-.0930	-.0830	-.0740	-.0530	-.0430
135.000	1.0230							.0130		.0010		-.0960		-.0710	
150.000	1.0230		.4200	-.0190	-.2000	-.1900	-.0960	.0140	.1000	.0180	-.0920	-.1020	-.1150	-.0850	-.0480
165.000	1.0230			.0250	-.1750	-.1690	-.0730	.0250	.1350	.0650	-.0940		-.1150		-.0490
180.000	1.0230	1.0870	.5120	.0500	-.1520	-.1470	-.0550	.0420	.1640	.1280	-.0940	-.0910	-.1000	-.0800	-.0370
270.000	1.0230	.9440													

X/LT	.7449	.8526	.9290

AMES 11-7D7 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT03)

MACH (1) = .398 BETAT (8) = 2.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0640	-.1220	-.4040
30.000	-.0620	-.1170	-.4090
60.000	-.1040	-.1500	-.3990
90.000			-.4660
120.000	-.0100	-.2070	-.4460
135.000	-.0100	-.2280	-.4260
150.000	-.0270	-.2730	-.3490
165.000		-.3720	-.2220
180.000	-.0050		

MACH (1) = .598 BETAT (7) = 4.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2356	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.0080	.7010	.0250	-.3510	-.4280	-.3940	-.2660	-.1610	-.1190	-.1200	-.1040	-.0970	-.0750	-.0680	-.0480
30.000	1.0080		.0130	-.3790	-.4130	-.3680	-.2330	-.1310	-.1110	-.1370	-.1040	-.0800	-.0820	-.0950	-.0930
60.000	1.0080		.0350	-.3480	-.3810	-.3180	-.1930	-.1000	-.1830	-.4140	-.1720	-.1510	-.0800	-.0480	-.0510
90.000	1.0080	.7850	.1020	-.2950	-.3380	-.2710	-.1020	.0330	.0840	-1.4680	-.7830	-.4890	-.2950	-.2120	-.1480
120.000	1.0080		.2140	-.1990	-.3030	-.2500	-.1160	.0220	.1530	-.0510	-.1006	-.0930	-.0830	-.0630	-.0410
135.000	1.0080							-.0100		-.0230		-.1210		-.0880	
150.000	1.0080		.3680	-.0570	-.2360	-.2130	-.1110	-.0140	.0790	-.0240	-.1280	-.1410	-.1460	-.1120	-.0850
165.000	1.0080			.0000	-.1930	-.1760	-.0880	.0060	.1120	.0290	-.1310		-.1450		-.0810
180.000	1.0080	1.0770	.5040	.0490	-.1600	-.1420	-.0650	.0350	.1510	.1140	-.1320	-.1130	-.1260	-.1100	-.0870
270.000	1.0080	.9750													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0710	-.1220	-.4010
30.000	-.0680	-.1130	-.4170
60.000	-.0960	-.1570	-.4175
90.000			-.4670
120.000	-.0220	-.1850	-.4180
135.000	-.0210	-.2000	-.3720
150.000	-.0400	-.2440	-.2930
165.000		-.2990	-.2210
180.000	-.0250		

AMES 11-707 1A9 ORA + 53 + T9 EXTERNAL TANK (RUNT03)

MACH (1) = .598 BETAT (8) = 0.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	.9850	.6810	.0090	-.3720	-.4390	-.4060	-.2740	-.1730	-.1340	-.1330	-.1200	-.1040	-.0930	-.0870	-.0790
30.000	.9360		-.0140	-.3960	-.4180	-.3610	-.2310	-.1220	-.1060	-.1330	-.1180	-.0830	-.0680	-.0610	-.0680
60.000	.9860		-.0020	-.3690	-.3760	-.3080	-.1900	-.0810	-.1600	-.3770	-.1620	-.1370	-.0940	-.0520	-.0480
90.000	.7860	.7140	.0450	-.3320	-.3550	-.2740	-.1110	.0350	.0960	-1.4660	-.7630	-.5010	-.3160	-.2250	-.1530
120.000	.9860		.1460	-.2480	-.3360	-.2780	-.1410	-.0020	.1390	-.0690	-.1240	-.1140	-.1080	-.0790	-.0620
135.000	.9860							-.0440		-.0550		-.1500		-.1150	
150.000	.9860		.3120	-.1140	-.2740	-.2500	-.1400	-.0450	.0390	-.0670	-.1780	-.1810	-.1960	-.1480	-.1220
165.000	.9860			-.0430	-.2250	-.2120	-.1140	-.0270	.0720	-.0300	-.1930		-.2070		-.1410
180.000	.9860	1.0490	.4710	.0230	-.1800	-.1620	-.0870	.0150	.1260	.0850	-.1550	-.1670	-.1830	-.1661	-.1290
270.000	.9860	.9970													

X/LT	.7449	.8528	.9290
PHI			
.000	-.1050	-.1410	-.4430
30.000	-.0990	-.1270	-.4110
60.000	-.0810	-.1530	-.4100
90.000			-.5220
120.000	-.0250	-.1990	-.4180
135.000	-.0270	-.2010	-.3040
150.000	-.0700	-.2650	-.2440
165.000		-.4090	-.2440
180.000	-.0720		

MACH (1) = .599 BETAT (9) = 0.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0009	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	.9320	.6420	-.0190	-.3900	-.4630	-.4230	-.2960	-.1930	-.1540	-.1510	-.1350	-.1190	-.1080	-.0990	-.0880
30.000	.9320		-.0300	-.4150	-.4130	-.3680	-.2530	-.1160	-.0940	-.1310	-.1390	-.0810	-.0740	-.0700	-.0680
60.000	.9320		-.0480	-.3990	-.3730	-.3040	-.1 10	-.0660	-.1250	-.3570	-.1360	-.1290	-.1120	-.0690	-.0600
90.000	.9320	.6400	-.0120	-.3750	-.3570	-.2810	-.1140	.0390	.1050	-1.4440	-.7850	-.4990	-.3040	-.2090	-.1360
120.000	.9320		.0780	-.3020	-.3580	-.3070	-.1610	-.0190	.1280	-.0780	-.1340	-.1220	-.1151	-.0881	-.0680
135.000	.9320							-.0700		-.0770		-.1770		-.1270	
150.000	.9320		.2490	-.1630	-.3110	-.2850	-.1790	-.0790	.0930	-.1250	-.2260	-.2280	-.2230	-.1881	-.1291
165.000	.9320			-.0770	-.2610	-.2430	-.1480	-.0610	.0380	-.0850	-.2450		-.2730		-.1920
180.000	.9320	1.0200	.4480	.0030	-.1960	-.1830	-.1060	-.0130	.1000	.0520	-.2470	-.2210	-.2411	-.2361	-.1881
270.000	.9320	1.0150													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT33)

MACH (1) = .599 BETAT (9) = 8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.1740	-.1860	-.4780
30.000	-.1090	-.1620	-.4350
60.000	-.0740	-.1510	-.4330
90.000			-.5420
120.000	-.0410	-.2290	-.4960
150.000	-.0490	-.1920	-.3240
180.000	-.0790	-.2990	-.3130
183.000		-.4090	-.3040
180.000	-.1180		

MACH (2) = .901 BETAT (1) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0079	.0452	.1098	.1744	.1905	.2101	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6572
PHI															
.000	1.1050	.8350	.1280	-.3430	-.6510	-.7050	-.1520	-.0660	-.0630	-.2230	-.2480	-.1130	-.0980	-.0470	-.0190
30.000	1.1050		.2270	-.2920	-.5780	-.6070	-.2620	-.1430	-.1890	-.4190	-.2750	-.1850	-.0730	-.0870	-.0210
60.000	1.1050		.3760	-.0960	-.4190	-.5090	-.2190	-.0650	-.1840	-.6410	-.6350	-.2340	-.1490	-.0490	-.0180
90.000	1.1050	1.1540	.5750	.0720	-.2460	-.1930	.0210	.1950	.2770	-1.0320	-.6750	-.2700	-.2890	-.1170	-.0390
120.000	1.1050		.6790	.1490	-.1510	-.1210	.0590	.2180	.3440	-.0540	.1290	.0190	-.0490	-.0210	.0470
133.000	1.1050							.1780		.1260		.0220		-.0430	
150.000	1.1050		.6820	.1940	-.1630	-.1590	-.0740	.1460	.2670	.2240	.0140	.0430	-.2170	-.1170	-.0430
165.000	1.1050			.1370	-.2170	-.2110	-.0890	.1020	.2630	.2040	-.1310		-.2440		-.0580
180.000	1.1050	1.1430	.5620	.0560	-.2740	-.2670	-.0760	.0370	.2470	.2030	-.2660	-.2430	-.3560	-.1710	-.0740
183.000	1.1050	.8140													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0740	-.1110	-.3480
30.000	-.0770	-.1210	-.2740
60.000	-.0480	-.1420	-.2940
90.000			-.3790
120.000	.1880	-.0740	-.2580
150.000	.1730	-.0380	-.2370
180.000	.1620	.0130	-.2800
183.000		.0130	-.2790
180.000	.0970		

SECTION (1.EXTERNAL TANK (RUN705)

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2333	.2874	.3412	.3950	.4489	.5027	.5585	.8372
PHI															
.000	1.1470	.8730	.1820	-.3200	-.6430	-.6480	-.1180	-.0280	-.0310	-.1900	-.3400	-.0910	-.0410	-.0230	-.0090
30.000	1.1470		.2140	-.3100	-.5990	-.6450	-.1620	-.0690	-.1070	-.3300	-.3400	-.1490	-.0580	-.0370	-.0310
60.000	1.1470		.3260	-.1800	-.5090	-.4240	-.1590	-.0350	-.1390	-.6170	-.6470	-.2630	-.0810	-.0380	-.0210
90.000	1.1470	1.1110	.4580	-.0470	-.3610	-.2660	.0020	.1790	.2750	-1.0510	-.6570	-.7880	-.2480	-.1090	-.0370
120.000	1.1470		.5750	.0750	-.2630	-.2140	.0130	.1830	.3360	-.0520	-.0340	-.0630	-.1020	-.0630	.0160
135.000	1.1470							.1530		.0960		-.0490		-.0780	
150.000	1.1470		.6350	.1350	-.2270	-.2030	-.0110	.1330	.2700	.1810	-.0380	-.0490	-.1510	-.1010	.0280
165.000	1.1470			.1200	-.2310	-.2320	-.0170	.1180	.2790	.2650	-.0380		-.2080		.0080
180.000	1.1470	1.1930	.6000	.0880	-.2550	-.2560	-.0350	.1020	.2780	.2640	-.0720	-.1270	-.2550	-.1450	-.0180
270.000	1.1470	.9410													

X/LT	.7449	.8526	.9290

PHI

ANES 11-707 IA9 OPA + S3 + T9 EXTERNAL TANK (RBNTD3)

MACH (2) = .900 BETAT (3) = -4.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0510	-.1030	-.3410
30.000	-.0310	-.1090	-.3110
60.000	-.0460	-.1350	-.2990
90.000			-.3470
120.000	.1320	-.0840	-.3050
135.000	.1270	-.0690	-.2970
150.000	.1290	-.0670	-.2990
165.000		-.2800	-.2680
180.000	.0750		

MACH (2) = .898 BETAT (4) = -2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1590	.8830	.1720	-.3150	-.6370	-.6370	-.1170	-.0260	-.0250	-.1860	-.3640	-.0880	-.0420	-.0200	-.0010
30.000	1.1590		.2040	-.3130	-.6270	-.6630	-.1370	-.0450	-.0750	-.2980	-.4150	-.1370	-.0560	-.0400	-.0480
60.000	1.1590		.2900	-.2140	-.5480	-.4030	-.1230	-.0130	-.1110	-.6010	-.6380	-.2610	-.0680	-.0370	-.0240
90.000	1.1590	1.0800	.4040	-.1030	-.4380	-.2770	-.0040	.1770	.2800	-1.0590	-.6720	-.7610	-.2370	-.0910	-.0340
120.000	1.1590		.5180	.0200	-.3300	-.2530	-.0070	.1690	.3310	-.0510	-.0670	-.1000	-.1410	-.0850	.0090
135.000	1.1590							.1350		.0800		-.0920		-.0770	
150.000	1.1590		.6020	.1000	-.2640	-.2380	-.0280	.1190	.2630	.1550	-.0540	-.0870	-.1900	-.0990	.0230
165.000	1.1590			.1030	-.2570	-.2380	-.0320	.1140	.2770	.2440	-.0490		-.2230		.0210
180.000	1.1590	1.2050	.6090	.0910	-.2590	-.2390	-.0470	.1080	.2840	.2820	-.0480	-.1140	-.2480	-.1190	.0060
270.000	1.1590	.9940													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0490	-.1040	-.3390
30.000	-.0510	-.1100	-.3230
60.000	-.0450	-.1320	-.3160
90.000			-.3710
120.000	.1100	-.1260	-.3300
135.000	.1050	-.1200	-.3310
150.000	.1120	-.1310	-.3310
165.000		-.3780	-.2760
180.000	.0950		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

MACH (2) = .899 BETAT (5) = 2.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.1610	.8790	.1690	-.3160	-.6330	-.5900	-.1130	-.0220	-.0220	-.1800	-.3730	-.0810	-.0390	-.0220	.0020
30.000	1.1610		.1680	-.3370	-.6410	-.4520	-.0930	-.0010	-.0150	-.2350	-.4340	-.0890	-.0390	-.0210	-.0320
60.000	1.1610		.2100	-.2860	-.6110	-.2860	-.0610	.0400	-.0440	-.3520	-.5940	-.1910	-.0620	-.0370	-.0290
90.000	1.1610	.9930	.2900	-.2150	-.5370	-.2450	.0140	.1890	.2990	-1.0420	-.7000	-.4850	-.1790	-.0370	-.0130
120.000	1.1610		.4010	-.0940	-.4180	-.3040	-.0280	.1490	.3270	-.0330	-.1100	-.1370	-.2230	-.0510	.0080
135.000	1.1610							.1120		.0670		-.1460		-.0680	
150.000	1.1610		.5300	.0340	-.3180	-.2930	-.0520	.0990	.2480	.1150	-.0800	-.1420	-.2970	-.0890	.0070
165.000	1.1610			.0690	-.2880	-.2650	-.0440	.1030	.2660	.2020	-.0310		-.2830		.0010
180.000	1.1610	1.2070	.6070	.0930	-.2500	-.2340	-.0440	.1120	.2650	.2790	-.0310	-.1060	-.2410	-.1050	.0100
270.000	1.1610	1.0800													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0510	-.0940	-.3350
30.000	-.0400	-.0960	-.3330
60.000	-.0380	-.1170	-.3280
90.000			-.4000
120.000	.0760	-.1790	-.3740
135.000	.0670	-.2180	-.3440
150.000	.0730	-.2950	-.2790
165.000		-.5220	-.2180
180.000	.0970		

MACH (2) = .898 BETAT (6) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3990	.4489	.5027	.5585	.6372
PHI															
.000	1.1480	.8620	.1610	-.3210	-.6360	-.6620	-.1330	-.0370	-.0300	-.1890	-.3890	-.0920	-.0510	-.0330	-.0260
30.000	1.1480		.1410	-.3480	-.6500	-.3850	-.0980	-.0010	.0040	-.2110	-.5090	-.0780	-.0380	-.0200	-.0310
60.000	1.1480		.1660	-.3200	-.6260	-.2720	-.0470	.0510	-.0140	-.5280	-.5600	-.1870	-.0890	-.0480	-.0390
90.000	1.1480	.9340	.2280	-.2670	-.5850	-.2580	.0140	.1880	.3130	-1.0370	-.7300	-.4330	-.1840	-.0480	-.0010
120.000	1.1480		.3350	-.1480	-.4780	-.4660	-.0430	.1340	.3240	-.0270	-.1340	-.1620	-.2450	-.0550	.0030
135.000	1.1480							.0900		.0530		-.1870		-.0770	
150.000	1.1480		.4830	-.0090	-.3560	-.3900	-.0880	.0730	.2290	.0820	-.0900	-.1870	-.3540	-.1120	-.0140
165.000	1.1480			.0470	-.3030	-.3250	-.0830	.0800	.2490	.1720	-.0900		-.3160		-.0340
180.000	1.1480	1.1940	.6040	.0960	-.2600	-.2690	-.0830	.1000	.2770	.2730	-.0670	-.1340	-.2610	-.1770	-.0270
270.000	1.1480	1.1090													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBW703)

MACH (2) = .898 BETAT (8) = 4.149

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0650	-.1080	-.3330
30.000	-.0650	-.1070	-.3400
60.000	-.0500	-.1370	-.3280
90.000			-.4080
120.000	.0570	-.1860	-.3760
135.000	.0570	-.2000	-.3420
150.000	.0460	-.2460	-.2890
165.000		-.3350	-.2360
180.000	.0640		

MACH (2) = .901 BETAT (7) = 6.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1270	.8460	.1410	-.3370	-.6480	-.6860	-.1550	-.0530	-.0510	-.2100	-.3460	-.1030	-.0730	-.0580	-.0410
30.000	1.1270		.1120	-.3710	-.6840	-.3120	-.1040	.0010	.0080	-.2070	-.4760	-.0800	-.0430	-.0280	-.0440
60.000	1.1270		.1230	-.3560	-.6430	-.2260	-.0390	.0670	.0070	-.5050	-.5670	-.1380	-.0810	-.0520	-.0210
90.000	1.1270	.8730	.1760	-.3120	-.6140	-.2260	.0140	.1830	.3220	-1.0120	-.7190	-.4030	-.1700	-.0470	-.0140
120.000	1.1270		.2710	-.2050	-.5340	-.5190	-.0490	.1210	.3130	-.0230	-.1640	-.1860	-.2580	-.0870	-.0090
135.000	1.1270							.0660		.0370		-.2230		-.0810	
150.000	1.1270		.4290	-.0630	-.3900	-.4350	-.1100	.0450	.1980	.0360	-.1410	-.2330	-.3840	-.1280	-.0330
165.000	1.1270			.0110	-.3300	-.3570	-.1070	.0515	.2210	.1350	-.1460		-.3710		-.0880
180.000	1.1270	1.1750	.5810	.0750	-.2630	-.2940	-.0820	.0720	.2540	.2560	-.1480	-.1750	-.3420	-.3140	-.0880
270.000	1.1270	1.1370													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0730	-.1100	-.3260
30.000	-.0720	-.1050	-.3310
60.000	-.0490	-.1320	-.3380
90.000			-.4050
120.000	.0420	-.2090	-.3510
135.000	.0430	-.1910	-.2840
150.000	.0300	-.2440	-.2480
165.000		-.3640	-.2620
180.000	.0250		

MACH (2) = .900 BETAT (8) = 8.270

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1000	.8150	.1230	-.3490	-.6570	-.7050	-.1760	-.0760	-.0720	-.2260	-.2910	-.1240	-.0860	-.0780	-.0980
30.000	1.1000		.0800	-.3980	-.6880	-.2770	-.1120	-.0090	.0080	-.2050	-.4820	-.0870	-.0590	-.0450	-.0730
60.000	1.1000		.0810	-.3920	-.6710	-.1990	-.0440	.0650	.0360	-.4810	-.5560	-.1260	-.0740	-.0400	-.0240
90.000	1.1000	.8070	.1230	-.3600	-.6450	-.2030	.0130	.1970	.3250	-.9860	-.7650	-.3720	-.1440	-.0240	.0090
120.000	1.1000		.2110	-.2640	-.5760	-.6300	-.0470	.1100	.3030	-.0250	-.1940	-.2020	-.2590	-.0770	-.0220
135.000	1.1000							.0500		.0210		-.2510		-.0880	
150.000	1.1000		.3770	-.1050	-.4370	-.4810	-.1360	.0160	.1720	.0050	-.2170	-.2700	-.4250	-.1540	-.0410
165.000	1.1000			-.0200	-.3550	-.3940	-.1360	.0180	.1930	.1000	-.5030		-.4160		-.1290
180.000	1.1000	1.1530	.5630	.0660	-.2720	-.3130	-.1120	.0450	.2290	.2580	-.5000	-.2160	-.3430	-.4450	-.1480
270.000	1.1000	1.1490													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0810	-.1220	-.3150
30.000	-.0810	-.1020	-.3200
60.000	-.0470	-.1230	-.3120
90.000			-.3930
120.000	.0130	-.2160	-.3190
135.000	.0440	-.1610	-.2870
150.000	.0410	-.2590	-.3020
165.000		-.3630	-.2920
180.000	-.0180		

MACH (3) = 1.101 BETAT (1) = -8.170

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2400	1.0040	.3400	-.0920	-.3860	-.4570	-.2440	-.0950	.0210	.0410	-.1910	-.2990	-.1050	-.0440	-.0220
30.000	1.2400		.4260	-.0420	-.3400	-.4090	-.5000	-.1450	-.0310	-.1810	-.4490	-.1560	-.1190	-.1130	-.1010
60.000	1.2400		.5740	.1110	-.2300	-.3100	-.4130	.0300	.0270	-.3770	-.5670	-.2050	-.1020	-.1200	-.0310
90.000	1.2400	1.2810	.7290	.2540	-.1090	-.2060	-.3110	.3150	.4590	-.5400	-.4000	-.4150	-.0810	-.1310	-.0890
120.000	1.2400		.8220	.3490	-.0360	-.1260	-.2340	.3060	.5090	.1880	.2320	.1790	.1270	.0170	-.1950
135.000	1.2400							.2520		.3130		.1840		.0050	
150.000	1.2400		.8220	.3490	-.0420	-.1270	-.2330	.1420	.4330	.4070	.1750	.1470	.1000	-.0750	-.2000
165.000	1.2400			.3070	-.0720	-.1580	-.2570	-.0660	.4300	.4880	.0410		.0140		-.2930
180.000	1.2400	1.2730	.7200	.2490	-.1230	-.2050	-.3120	-.2170	.4230	.4730	-.1490	.1400	-.0830	-.2250	-.4390
270.000	1.2400	.9770													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-7D7 IA9 CBA + S3 + T9 EXTERNAL TANK (RBNT03)

MACH (3) = 1.101 BETAT (1) = -8.170

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8326	.9290
PHI			
.000	-.0370	.0010	-.0940
30.000	-.0380	-.0270	-.0620
90.000	-.0220	-.0440	-.1310
90.000			-.2680
120.000	.1360	.1730	-.1140
135.000	.1600	.2230	-.1210
150.000	.1630	.2690	-.1140
165.000		.2150	-.0890
180.000	.0360		

MACH (3) = 1.100 BETAT (2) = -8.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2630	1.0160	.3520	-.0880	-.3820	-.4430	-.3110	-.0880	.0220	.0610	-.1490	-.3070	-.0930	-.0190	-.0130
30.000	1.2630		.4180	-.0480	-.3500	-.4160	-.5010	-.1230	.0180	-.1180	-.4010	-.1590	-.1180	-.0830	-.0970
60.000	1.2630		.5420	.0760	-.2630	-.3400	-.4320	-.0240	.0370	-.3640	-.5630	-.2040	-.0920	-.1310	-.0490
90.000	1.2630	1.2650	.6800	.2040	-.1570	-.2440	-.3470	.2180	.4590	-.5600	-.4190	-.4060	-.1910	-.1520	-.0990
120.000	1.2630		.7790	.3030	-.0770	-.1650	-.2640	.2280	.5220	.2040	.1980	.1740	.0800	-.0090	-.2340
135.000	1.2630							.1390		.3240		.1930		-.0230	
150.000	1.2630		.8010	.3250	-.0640	-.1440	-.2510	-.0870	.4600	.4110	.1280	.2000	.0590	-.0810	-.2340
165.000	1.2630			.2990	-.0850	-.1620	-.2640	-.1900	.4630	.4900	-.0430		.0050		-.2970
180.000	1.2630	1.2980	.7360	.2570	-.1160	-.2000	-.2940	-.2130	.4600	.4930	-.1450	.1210	-.0490	-.1870	-.4130
270.000	1.2630	1.0360													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0550	.0110	-.1120
30.000	-.0480	-.0070	-.0690
60.000	-.0180	-.0080	-.1000
90.000			-.1740
120.000	.1380	.1340	-.1400
135.000	.1590	.1670	-.1640
150.000	.1660	.1920	-.1730
165.000		.0470	-.1240
180.000	.0800		

MACH (3) = 1.102 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2780	1.0230	.3620	-.0830	-.3740	-.4360	-.3790	-.0850	.0380	.0750	-.1110	-.3160	-.0670	-.0010	-.0110
30.000	1.2780		.4090	-.0590	-.3520	-.4200	-.3050	-.0940	.0420	-.0680	-.3470	-.1570	-.1000	-.0530	-.0880
60.000	1.2780		.5090	.0470	-.2870	-.3660	-.4550	-.0430	.0590	-.3520	-.5510	-.2200	-.1090	-.0690	-.0760
90.000	1.2780	1.2450	.6290	.1560	-.1980	-.2830	-.3830	.1400	.4580	-.5690	-.5390	-.4120	-.1830	-.1490	-.1050
120.000	1.2780		.7330	.2580	-.1140	-.2040	-.3030	.1920	.5290	.2200	.1500	.1550	.0510	-.0440	-.2720
135.000	1.2780							.1100		.3330		.1740		-.0490	
150.000	1.2780		.7830	.3050	-.0830	-.1650	-.2680	-.0600	.4760	.4070	-.0180	.1870	.0480	-.1000	-.2800
165.000	1.2780			.2950	-.0820	-.1740	-.2700	-.2090	.4810	.4860	-.0850		.0140		-.3040
180.000	1.2780	1.3170	.7510	.2690	-.1070	-.1930	-.2910	-.2020	.4830	.5070	-.1140	.1420	-.0010	-.1790	-.3470
270.000	1.2780	1.0870													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0560	.0130	-.1020
30.000	-.0570	.0000	-.0910
60.000	-.0320	-.0180	-.0920
90.000			-.1590
120.000	.1290	.0890	-.1580
135.000	.1540	.1120	-.2240
150.000	.1720	.1120	-.2220
165.000		-.0310	-.2020
180.000	.1240		

MACH (3) = 1.100 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2860	1.0330	.3670	-.0780	-.3750	-.4390	-.5060	-.0930	.0400	.0950	-.0960	-.3240	-.0410	.0160	-.0070
30.000	1.2860		.3980	-.0620	-.3660	-.4250	-.5110	-.0990	.0250	-.0190	-.3180	-.1620	-.0750	-.0180	-.0790
60.000	1.2860		.4720	.0160	-.3120	-.3880	-.4780	-.0780	.0830	-.3240	-.5490	-.2160	-.0770	-.0490	-.0800
90.000	1.2860	1.2120	.5770	.1070	-.2400	-.3220	-.4150	.0600	.4620	-.5660	-.5440	-.4110	-.1260	-.1480	-.1120
120.000	1.2860		.6790	.2080	-.1610	-.2430	-.3360	.1010	.5370	.2340	.0870	.1430	.0360	-.0900	-.2970
135.000	1.2860							.0410		.3340		.1570		-.0920	
150.000	1.2860		.7560	.2770	-.1030	-.1880	-.2900	-.1740	.4790	.3980	-.1050	.1740	.0340	-.1330	-.2830
165.000	1.2860			.2800	-.0960	-.1840	-.2870	-.2300	.4880	.4780	-.2420		.0260		-.3150
180.000	1.2860	1.3230	.7620	.2730	-.1050	-.1850	-.2910	-.2320	.4940	.4770	-.2790	.1690	.0200	-.1770	-.3230
270.000	1.2860	1.1340													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT09)

MACH (3) = 1.100 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0680	.0150	-.0750
30.000	-.0670	-.0010	-.0910
60.000	-.0360	-.0200	-.0880
90.000			-.1580
120.000	.1170	.0560	-.2100
135.000	.1320	.0650	-.2720
150.000	.1490	.0570	-.2360
165.000		-.0890	-.2290
180.000	.1380		

MACH (3) = 1.099 BETAT (5) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2910	1.0320	.3680	-.0810	-.3740	-.4380	-.5090	-.0990	.0500	.1060	-.0640	-.3380	-.0290	.0250	-.0050
30.000	1.2910		.3810	-.0790	-.3750	-.4340	-.5140	-.0960	.0230	.0280	-.2570	-.1850	-.0430	.0020	-.0790
60.000	1.2910		.4370	-.0220	-.3390	-.4080	-.4960	-.0880	.1060	-.2930	-.4250	-.2300	-.0740	-.1500	-.0770
90.000	1.2910	1.1740	.5260	.0600	-.2790	-.3590	-.4510	.0290	.4480	-.5540	-.4360	-.4170	-.0490	-.1120	-.1180
120.000	1.2910		.6280	.1600	-.2000	-.2820	-.3760	.1270	.5150	.2410	.0100	.1190	.0210	-.1210	-.3120
135.000	1.2910							.1060		.3270		.1290		-.1360	
150.000	1.2910		.7230	.2490	-.1260	-.2170	-.3140	-.1450	.4610	.3810	-.1680	.1470	.0040	-.1720	-.3120
165.000	1.2910			.2700	-.1080	-.1980	-.2960	-.2140	.4810	.4630	-.2870		.0150		-.3120
180.000	1.2910	1.3280	.7810	.2690	-.1040	-.1860	-.2940	-.1760	.4940	.5030	-.2860	.1710	.0220	-.1810	-.3120
270.000	1.2910	1.1740													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0710	.0240	-.0820
30.000	-.0570	.0040	-.0860
60.000	-.0130	-.0050	-.0760
90.000			-.1800
120.000	.0910	.0190	-.2410
135.000	.1030	.0090	-.2680
150.000	.1230	-.0180	-.2630
165.000		-.1590	-.2730
180.000	.1380		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT03)

MACH (3) = 1.101 BETAT (6) = 2.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2880	1.0310	.3680	-.0770	-.3740	-.4390	-.5140	-.1010	.0450	.1020	-.1010	-.3230	-.0410	.0200	-.0030
30.000	1.2880		.3670	-.0870	-.3790	-.4400	-.5140	-.1010	.0040	.0540	-.2260	-.2300	-.0390	.0020	-.0850
60.000	1.2880		.4040	-.0500	-.3590	-.4250	-.4870	-.1010	.0960	-.2590	-.3240	-.2060	-.0650	-.0980	-.1000
90.000	1.2880	1.1340	.4770	.0140	-.3120	-.3910	-.1630	-.0480	.4360	-.5500	-.4470	-.4160	-.1780	-.1570	-.1260
120.000	1.2880		.5740	.1110	-.2370	-.3150	-.1910	.0500	.4520	.2570	-.0430	.1040	-.0030	-.1630	-.3330
135.000	1.2880							.0410		.3250		.1070		-.1890	
150.000	1.2880		.6890	.2170	-.1490	-.2430	-.3370	-.2190	.4390	.3590	-.1970	.1240	-.0170	-.2170	-.3560
165.000	1.2880			.2480	-.1230	-.2100	-.3090	-.2550	.4660	.4400	-.3180		-.0060		-.3480
180.000	1.2880	1.3240	.7600	.2710	-.1030	-.1890	-.2950	-.2390	.4830	.5150	-.3180	.1670	.0180	-.1790	-.3260
270.000	1.2880	1.2110													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0810	.0000	-.0940
30.000	-.0810	.0000	-.1190
60.000	-.0350	-.0010	-.1030
90.000			-.2140
120.000	.0890	-.0150	-.2510
135.000	.0690	-.0340	-.2900
150.000	.1140	-.0730	-.2550
165.000		-.2160	-.2650
180.000	.1470		

MACH (3) = 1.100 BETAT (7) = 4.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2770	1.0180	.3580	-.0830	-.3770	-.4430	-.3030	-.0900	.0370	.0720	-.1520	-.3110	-.0730	-.0030	-.0140
30.000	1.2770		.3410	-.1040	-.3880	-.4510	-.2680	-.0890	.0010	-.0020	-.2000	-.2790	-.0930	-.0090	-.0950
60.000	1.2770		.3640	-.0820	-.3790	-.4390	-.1350	-.0940	.0080	-.2310	-.3070	-.2680	-.0600	-.0870	-.1270
90.000	1.2770	1.0830	.4220	-.0320	-.3430	-.4190	-.0450	-.0570	.5510	-.5500	-.4560	-.4160	-.1400	-.1540	-.1430
120.000	1.2770		.5160	.0600	-.2750	-.3500	-.4350	.0340	.5410	.2640	-.0780	.0910	-.0250	-.1850	-.3800
135.000	1.2770							.0350		.3140		.0790		-.2230	
150.000	1.2770		.6460	.1820	-.1800	-.2710	-.3630	-.1550	.4370	.3300	-.2710	.0910	-.0530	-.2810	-.4000
165.000	1.2770			.2270	-.1440	-.2260	-.3250	-.2020	.4550	.4100	-.3690		-.0390		-.3950
180.000	1.2770	1.3170	.7530	.2660	-.1060	-.1910	-.2980	-.1430	.4760	.5020	-.3690	.1430	-.0030	-.1860	-.3590
270.000	1.2770	1.2400													

X/LT	.7449	.8526	.9290

AMES 11-7D7 IA9 CBA + SS + T9 EXTERNAL TANK (RBNT03)

MACH (3) = 1.100 BETAT (7) = 4.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0740	.0040	-.1020
30.000	-.0330	.0080	-.0940
60.000	-.0350	-.0010	-.0950
90.000			-.2230
120.000	.0750	-.0680	-.2240
135.000	.0790	-.0360	-.2420
150.000	.0910	-.0820	-.2290
165.000		-.3350	-.2440
180.000	.1250		

MACH (3) = 1.103 BETAT (8) = 6.240

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.8372
PHI															
.000	1.2620	1.0030	.3490	-.0850	-.3830	-.4490	-.2460	-.0940	.0270	.0590	-.1370	-.2910	-.0920	-.0270	-.0180
30.000	1.2620		.3230	-.1160	-.4030	-.4570	-.1800	-.0890	-.0150	-.0370	-.1580	-.2910	-.0750	-.0280	-.0950
60.000	1.2620		.3290	-.1050	-.3930	-.4530	-.1230	-.0950	.0180	-.2010	-.2850	-.2910	-.0780	-.0450	-.1130
90.000	1.2620	1.0290	.3750	-.0700	-.3680	-.4390	-.0750	-.1040	.5440	-.5330	-.4450	-.4120	-.2170	-.1640	-.1470
120.000	1.2620		.4620	.0180	-.3090	-.3770	-.4670	-.0420	.5230	.2670	-.1020	.0840	-.0390	-.1970	-.3820
135.000	1.2620							-.2110		.2970		.0570		-.2510	
150.000	1.2620		.6030	.1410	-.2100	-.2960	-.3920	-.2880	.4160	.2960	-.3100	.0620	-.0890	-.3010	-.4510
165.000	1.2620			.2010	-.1620	-.2460	-.3390	-.2800	.4300	.3750	-.3810		-.0710		-.4720
180.000	1.2620	1.3000	.7530	.2540	-.1120	-.1970	-.3020	-.2200	.4480	.4890	-.4030	.1210	-.0290	-.2130	-.4190
270.000	1.2620	1.2640													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0810	.0070	-.1080
30.000	-.0620	.0180	-.0920
60.000	-.0380	-.0050	-.1070
90.000			-.2040
120.000	.0480	-.0390	-.2360
135.000	.0480	-.0520	-.2360
150.000	.0440	-.1030	-.2510
165.000		-.3020	-.2780
180.000	.0710		

MACH (3) = 1.101 BETAT (9) = 7.800

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2480	.9830	.3410	-.0900	-.3940	-.4390	-.2110	-.1020	.0250	.0450	-.1790	-.2750	-.0940	-.0400	-.0260
30.000	1.2480		.3060	-.1300	-.4140	-.4690	-.1470	-.0950	-.0230	-.0730	-.1780	-.3020	-.0930	-.0370	-.1120
60.000	1.2480		.3080	-.1260	-.4060	-.4650	-.1190	-.1000	.0040	-.1870	-.2410	-.2600	-.0950	-.0600	-.0970
90.000	1.2480	.9840	.3450	-.1040	-.3910	-.4590	-.0950	-.1260	.5510	-.5190	-.4420	-.3910	-.3570	-.1690	-.1520
120.000	1.2480		.4290	-.0170	-.3310	-.4060	-.4900	-.0560	.5140	.2600	-.1170	.0770	-.0430	-.2150	-.4010
135.000	1.2480							-.0890		.2790		.0440		-.2770	
150.000	1.2480		.5710	.1110	-.2360	-.3180	-.4090	-.2620	.3870	.2600	-.3420	.0540	-.1080	-.3340	-.4910
165.000	1.2480			.1780	-.1840	-.2610	-.3560	-.2920	.3930	.3430	-.4050		-.0970		-.5510
180.000	1.2480	1.2840	.7230	.2390	-.1280	-.2080	-.3120	-.1890	.4200	.4740	-.4270	.1430	-.0480	-.2420	-.4390
270.000	1.2480	1.2720													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0690	.0010	-.1030
30.000	-.0450	.0190	-.0990
60.000	-.0220	.0010	-.1110
90.000			-.2110
120.000	.0070	-.0950	-.2640
135.000	.0070	-.0710	-.2350
150.000	-.0110	-.2420	-.2940
165.000		-.3450	-.2890
180.000	.0170		

MACH (4) = 1.248 BETAT (1) = -8.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3230	1.0730	.3970	-.0190	-.2870	-.3500	-.4220	-.3950	-.0330	.0400	-.0780	-.2760	-.1680	-.0970	-.0140
30.000	1.3230		.4870	.0650	-.2380	-.2990	-.3980	-.3630	-.1180	-.2320	-.3400	-.2200	-.1070	-.1190	-.1110
60.000	1.3230		.6370	.1900	-.1320	-.2210	-.3140	-.2610	.0530	-.2900	-.6200	-.2520	-.1300	-.0990	-.0140
90.000	1.3230	1.3630	.7890	.3280	-.0230	-.1220	-.2170	-.1310	.5240	-.3480	-.4540	-.2440	-.3090	-.1130	-.0420
120.000	1.3230		.8820	.4160	.0490	-.0490	-.1480	-.1150	.5010	.2810	.0160	.2650	.1980	.1180	-.0820
135.000	1.3230							-.1070		.4010		.2690		.1280	
150.000	1.3230		.8820	.4160	.0450	-.0530	-.1470	-.1080	.3810	.4980	.1070	.2200	.1610	.0940	-.0820
165.000	1.3230			.3770	.0130	-.0760	-.1690	-.1270	.3910	.5850	.0750		.1930		-.1700
180.000	1.3230	1.3530	.7770	.3180	-.0340	-.1270	-.2170	-.1780	.3510	.5780	.0010	-.2120	.1280	-.0830	-.2950
270.000	1.3230	1.0520													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT03)

MACH (4) = 1.248 BETAT (1) = -8.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0390	-.0330	-.0290
30.000	-.0710	-.0350	-.0090
60.000	-.0490	-.0300	-.0480
90.000			-.2000
120.000	.0500	.2320	.0070
135.000	-.0170	.2780	-.0290
150.000	-.0690	.3170	-.0380
165.000		.2990	-.0370
180.000	-.3700		

MACH (4) = 1.249 BETAT (2) = -8.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3410	1.0880	.4100	-.0100	-.2780	-.3340	-.4060	-.3760	.0100	.0670	-.0410	-.2520	-.1870	-.0850	.0120
30.000	1.3410		.4780	.0540	-.2410	-.3010	-.3930	-.3570	-.1070	-.1470	-.3070	-.2230	-.1000	-.1130	-.0790
60.000	1.3410		.6030	.1580	-.1570	-.2420	-.3260	-.2650	.0560	-.2840	-.6060	-.3220	-.0840	-.1150	-.0390
90.000	1.3410	1.3450	.7400	.2820	-.0620	-.1570	-.2460	-.2040	.5290	-.3550	-.4050	-.2930	-.2840	-.2260	-.0780
120.000	1.3410		.8370	.3770	.0150	-.0780	-.1795	-.1340	.4880	.3100	.0130	.1650	.2079	.1010	-.1090
135.000	1.3410							-.1180		.4210		.1680		.1000	
150.000	1.3410		.8640	.4000	.0280	-.0720	-.1600	-.1170	.4240	.5110	.0770	.1300	.2340	.0700	-.1230
165.000	1.3410			.3710	.0100	-.0790	-.1745	-.1250	.3590	.5960	.0420		.2040		-.1600
180.000	1.3410	1.3770	.7970	.3300	-.0230	-.1010	-.2060	-.1590	.2940	.5980	-.0820	-.1710	.1670	-.0520	-.2550
270.000	1.3410	1.1060													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0410	-.0360	-.0430
30.000	-.0600	-.0370	-.0170
60.000	-.0340	-.0220	-.0170
90.000			-.0990
120.000	.0100	.2010	-.0210
135.000	-.0600	.2360	-.0560
150.000	-.0990	.2580	-.0560
165.000		.2280	-.0910
180.000	-.3210		

AMES 11-707 IA9 OEA + 33 + T9 EXTERNAL TANK (RBNT09)

MACH (4) = 1.245 BETAT (3) = -4.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3570	1.0970	.4170	-.0030	-.2750	-.3310	-.4060	-.3620	.0160	.0960	-.0210	-.2480	-.2140	-.0740	.0270
30.000	1.3570		.4650	.0440	-.2510	-.3120	-.3920	-.3500	-.0850	-.0720	-.2440	-.2170	-.1170	-.1150	-.0850
60.000	1.3570		.5680	.1220	-.1860	-.2620	-.3460	-.2830	.0450	-.2840	-.5780	-.3100	-.0020	-.0950	-.0700
90.000	1.3570	1.3180	.5930	.2340	-.1050	-.1890	-.2800	-.2370	.5340	-.3670	-.3520	-.3290	-.2860	-.2150	-.0840
120.000	1.3570		.7920	.3300	-.0260	-.1130	-.2060	-.1670	.5230	.3280	.0110	.1115	.2062	.0570	-.1420
135.000	1.3570							-.1460		.4340		.1163		.0370	
150.000	1.3570		.8440	.3760	.0060	-.0840	-.1720	-.1350	.4020	.5150	.0210	.0990	.2700	.1430	-.1540
165.000	1.3570			.3660	.0000	-.0820	-.1730	-.1350	.3940	.5950	-.0420		.1920		-.1850
180.000	1.3570	1.3910	.8110	.3390	-.0210	-.1010	-.1980	-.1520	.3770	.5950	-.0440	-.1690	.1670	-.0370	-.2370
270.000	1.3570	1.1570													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0390	-.0490	-.0590
30.000	-.0400	-.0480	-.0350
60.000	-.0220	-.0200	-.0330
90.000			-.0780
120.000	-.0310	.1440	-.0780
135.000	-.0930	.1790	-.1090
150.000	-.1410	.1940	-.1090
165.000		.1090	-.1520
180.000	-.2850		

MACH (4) = 1.248 BETAT (4) = -2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3690	1.1060	.4210	-.0010	-.2690	-.3280	-.4010	-.3550	.0220	.1030	-.0010	-.2490	-.2190	-.0580	.0330
30.000	1.3690		.4370	.0300	-.2570	-.3180	-.4080	-.3590	-.0920	-.0120	-.1790	-.2570	-.1941	-.0970	-.0470
60.000	1.3690		.5340	.0860	-.2130	-.2900	-.3740	-.3110	.0150	-.2990	-.5540	-.2850	-.0010	-.0810	-.0370
90.000	1.3690	1.2990	.6400	.1850	-.1440	-.2330	-.3150	-.2570	.5450	-.3690	-.3750	-.3450	-.2430	-.1720	-.0470
120.000	1.3690		.7400	.2830	-.0660	-.1570	-.2430	-.1910	.5620	.3570	.0260	.1220	.2510	.0610	-.1660
135.000	1.3690							-.1690		.4410		.1370		.0410	
150.000	1.3690		.8150	.3480	-.0150	-.1190	-.1980	-.1520	.4550	.5120	.0270	.1020	.2740	.1370	-.1770
165.000	1.3690			.3540	-.0070	-.1050	-.1950	-.1510	.3730	.6410	-.0290		.1720		-.1910
180.000	1.3690	1.4040	.8170	.3410	-.0180	-.1040	-.1990	-.1510	.3605	.6510	-.0410	-.1810	.1610	-.0330	-.2310
270.000	1.3690	1.2040													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-75? 1A9 CBA + SS + T9 EXTERNAL TANK (RBNTD3)

MACH (4) = 1.248 BETAT (4) = -2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0300	-.0380	-.0350
30.000	-.0300	-.0340	-.0480
60.000	-.0220	-.0070	-.0260
90.000			-.0710
120.000	-.0990	.1250	-.1020
135.000	-.1170	.1360	-.1560
150.000	-.1630	.1380	-.1940
165.000		.0620	-.1980
180.000	-.1930		

MACH (4) = 1.247 BETAT (5) = 2.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3710	1.1030	.4250	.0050	-.2740	-.3270	-.4020	-.3550	.0160	.0990	.0040	-.2580	-.2120	-.0700	.0310
30.000	1.3710		.4220	-.0070	-.2750	-.3280	-.4040	-.3560	.0020	.0380	-.0990	-.1830	-.1930	-.0570	-.0280
60.000	1.3710		.4590	.0250	-.2580	-.3240	-.3940	-.3310	.0630	-.2380	-.4080	-.2950	-.0570	-.1140	-.0880
90.000	1.3710	1.2110	.5340	.0890	-.2150	-.2940	-.3570	-.2790	.4930	-.3480	-.2990	-.4280	-.2960	-.1820	-.0880
120.000	1.3710		.6340	.1850	-.1390	-.2260	-.3070	-.2690	.2200	.4060	.0680	.0430	.1380	-.0310	-.2120
135.000	1.3710							-.2400		.3960		.0840		-.0530	
150.000	1.3710		.7470	.2880	-.0630	-.1520	-.2420	-.2040	.2720	.4490	-.0620	.0920	.1120	-.0790	-.2320
165.000	1.3710			.3210	-.0330	-.1250	-.2120	-.1740	.3720	.5350	-.1510		.1360		-.2320
180.000	1.3710	1.4060	.8190	.3440	-.0170	-.1080	-.2050	-.1640	.3660	.6300	-.1530	-.0210	.1630	-.0390	-.2040
270.000	1.3710	1.2880													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0300	-.0360	-.0350
30.000	-.0290	-.0230	-.0390
60.000	-.0190	-.0050	-.0280
90.000			-.1210
120.000	-.1080	.0490	-.1640
135.000	-.1340	.0300	-.2120
150.000	-.1710	.0470	-.2130
165.000		-.0790	-.2450
180.000	-.1910		

AMES 11-FOOT TAN OPA + 30 + 79 EXTERNAL TANK (ORBIT)

MACH (4) = 1.248 BETAT (8) = 8.147

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3930	.4489	.5027	.9585	.8372
PHI															
.000	1.3440	1.0810	.4090	-.0080	-.2790	-.3370	-.3960	-.3580	.0120	.0690	-.0810	-.2490	-.1810	-.0710	-.0080
30.000	1.3440		.3810	-.0310	-.2950	-.3470	-.4020	-.3560	.0020	.0270	-.0800	-.2010	-.1880	-.0990	-.0490
60.000	1.3440		.3910	-.0270	-.2920	-.3450	-.4060	-.1690	.0280	-.1620	-.1990	-.2050	-.0950	-.0380	-.0490
90.000	1.3440	1.1030	.4380	.0110	-.2690	-.3330	-.3340	-.0410	.3880	-.3410	-.3110	-.4310	-.2690	-.1690	-.1070
120.000	1.3440		.5220	.0910	-.2110	-.2790	-.3540	-.2020	.3520	.3590	.0360	.0240	.1340	-.0830	-.2870
135.000	1.3440							-.2640		.4130		.0750		-.1790	
150.000	1.3440		.6590	.2120	-.1200	-.1980	-.2770	-.2510	.2490	.4240	.1430	.0340	.0840	-.1550	-.3220
165.000	1.3440			.2700	-.0720	-.1490	-.2370	-.2070	.2550	.4910	-.2350		.1230		-.3440
180.000	1.3440	1.3770	.7910	.3230	-.0300	-.1060	-.2020	-.1670	.2640	.5970	-.2320	-.1620	.1650	-.0850	-.2890
270.000	1.3440	1.3420													
X/LT	.7449	.8328	.9290												
PHI															
.000	-.0420	-.0440	-.0900												
30.000	-.0420	-.0280	-.0490												
60.000	-.0420	-.0140	-.0320												
90.000			-.1290												
120.000	-.0850	-.0380	-.1790												
135.000	-.1220	-.0730	-.2070												
150.000	-.1590	-.0750	-.1980												
165.000		-.1900	-.1970												
180.000	-.2880														

MACH (4) = 1.248 BETAT (7) = 8.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3930	.4489	.5027	.9585	.8372
PHI															
.000	1.3440	1.0810	.4090	-.0080	-.2790	-.3370	-.3960	-.3580	.0120	.0690	-.0810	-.2490	-.1810	-.0710	-.0080
30.000	1.3440		.3810	-.0310	-.2950	-.3470	-.4020	-.3560	.0020	.0270	-.0800	-.2010	-.1880	-.0990	-.0490
60.000	1.3440		.3910	-.0270	-.2920	-.3450	-.4060	-.1690	.0280	-.1620	-.1990	-.2050	-.0950	-.0380	-.0490
90.000	1.3440	1.1030	.4380	.0110	-.2690	-.3330	-.3340	-.0410	.3880	-.3410	-.3110	-.4310	-.2690	-.1690	-.1070
120.000	1.3440		.5220	.0910	-.2110	-.2790	-.3540	-.2020	.3520	.3590	.0360	.0240	.1340	-.0830	-.2870
135.000	1.3440							-.2640		.4130		.0750		-.1790	
150.000	1.3440		.6590	.2120	-.1200	-.1980	-.2770	-.2510	.2490	.4240	.1430	.0340	.0840	-.1550	-.3220
165.000	1.3440			.2700	-.0720	-.1490	-.2370	-.2070	.2550	.4910	-.2350		.1230		-.3440
180.000	1.3440	1.3770	.7910	.3230	-.0300	-.1060	-.2020	-.1670	.2640	.5970	-.2320	-.1620	.1650	-.0850	-.2890
270.000	1.3440	1.3420													
X/LT	.7449	.8328	.9290												
PHI															

AMES 11-7[illegible] TA[illegible]2A + 53 + T9 EXTERNAL TANK (RBNTD3)

MACH (4) = 1.246 BETAT (4) = -2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0300	-.0380	-.0330
30.000	-.0300	-.0340	-.0480
60.000	-.0220	-.0070	-.0260
90.000			-.0710
120.000	-.0390	.1250	-.1020
135.000	-.1170	.1360	-.1560
150.000	-.1630	.1380	-.1940
165.000		.0620	-.1980
180.000	-.1950		

MACH (4) = 1.247 BETAT (5) = 2.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3710	1.1030	.4250	.0000	-.2740	-.3270	-.4020	-.3550	.0160	.0990	.0040	-.2360	-.2120	-.0700	.0310
30.000	1.3710		.4220	-.0070	-.2750	-.3280	-.4040	-.3560	.0020	.0380	-.0990	-.1830	-.1930	-.0970	-.0280
60.000	1.3710		.4590	.0250	-.2560	-.3240	-.3940	-.3310	.0630	-.2380	-.4080	-.2950	-.0570	-.1140	-.0880
90.000	1.3710	1.2110	.5340	.0890	-.2150	-.2940	-.3570	-.2790	.4930	-.3480	-.2990	-.4280	-.2960	-.1820	-.0880
120.000	1.3710		.6340	.1850	-.1390	-.2260	-.3070	-.2690	.2200	.4080	.0680	.0430	.1380	-.0310	-.2120
135.000	1.3710							-.2400		.3960		.0840		-.0930	
150.000	1.3710		.7470	.2880	-.0630	-.1520	-.2420	-.2040	.2720	.4490	-.0620	.0920	.1120	-.0700	-.2320
165.000	1.3710			.3210	-.0330	-.1250	-.2120	-.1740	.3720	.5350	-.1510		.1360		-.2320
180.000	1.3710	1.4060	.8190	.3440	-.0170	-.1080	-.2050	-.1640	.3660	.6300	-.1530	-.0210	.1630	-.0390	-.2040
270.000	1.3710	1.2880													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0300	-.0360	-.0330
30.000	-.0290	-.0230	-.0390
60.000	-.0190	-.0050	-.0280
90.000			-.1110
120.000	-.1060	.0490	-.1640
135.000	-.1340	.0590	-.2120
150.000	-.1710	.0470	-.2130
165.000		-.0790	-.2450
180.000	-.1910		

ORIGINAL PAGE IS POOR.

MACH (4) = 1.247 BETAT (6) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VAPIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2333	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3590	1.0925	.4175	-.0030	-.2730	-.3300	-.3920	-.3460	.0120	.0900	-.0240	-.2400	-.2030	-.0820	.0200
30.000	1.3590		.4010	-.0190	-.2840	-.3360	-.3950	-.3510	.0090	.0390	-.0550	-.1830	-.2040	-.0540	-.0350
60.000	1.3590		.4230	-.0050	-.2750	-.3300	-.3960	-.2470	.0530	-.1870	-.2600	-.2540	-.0740	-.0950	-.0770
90.000	1.3590	1.1580	.4810	.0460	-.2450	-.3100	-.3630	.0230	.3740	-.3510	-.3110	-.4520	-.3230	-.2540	-.0990
120.000	1.3590		.5750	.1340	-.1780	-.2490	-.3260	-.0440	.2020	.3500	.0570	.0320	.1190	-.0570	-.2400
135.000	1.3590							-.2590		.3940		.0750		-.0890	
150.000	1.3590		.7060	.2510	-.0900	-.1690	-.2550	-.2190	.2770	.4350	-.1010	.0480	.0820	-.1090	-.2720
165.000	1.3590			.2980	-.0500	-.1350	-.2180	-.1850	.3110	.5330	-.1970		.1150		-.2840
180.000	1.3590	1.3995	.8100	.3370	-.0200	-.1000	-.1950	-.1550	.3240	.6230	-.1970	-.0800	.1680	-.0460	-.2410
270.000	1.3590	1.3200													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0420	-.0460	-.0500
30.000	-.0420	-.0260	-.0490
60.000	-.0420	-.0140	-.0320
90.000			-.1290
120.000	-.0950	-.0380	-.1790
135.000	-.1220	-.0730	-.2070
150.000	-.1590	-.0750	-.1980
165.000		-.1900	-.1970
180.000	-.2880		

MACH (4) = 1.248 BETAT (7) = 6.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3449	1.0810	.4090	-.0080	-.2790	-.3370	-.3960	-.3580	.0120	.0690	-.0810	-.2490	-.1810	-.0710	-.0080
30.000	1.3449		.3810	-.0310	-.2950	-.3470	-.4020	-.3560	.0020	.0270	-.0600	-.2010	-.1880	-.0530	-.0400
60.000	1.3449		.3810	-.0270	-.2920	-.3400	-.4060	-.1690	.0280	-.1620	-.1990	-.2030	-.0950	-.0580	-.0490
90.000	1.3449	1.1050	.4360	.0110	-.2690	-.3330	-.3340	-.0410	.3880	-.3410	-.3110	-.4310	-.2650	-.3890	-.1070
120.000	1.3449		.5220	.0910	-.2110	-.2790	-.3540	-.2020	.3520	.3590	.0360	.0240	.1340	-.0650	-.2870
135.000	1.3449							-.2640		.4130		.0730		-.1090	
150.000	1.3449		.6590	.2120	-.1200	-.1960	-.2770	-.2510	.2490	.4240	-.1430	.0340	.0640	-.1505	-.3220
165.000	1.3449			.2700	-.0720	-.1490	-.2370	-.2070	.2550	.4910	-.2350		.1230		-.3440
180.000	1.3449	1.3770	.7910	.3230	-.0300	-.1060	-.2020	-.1670	.2840	.5970	-.2320	-.1620	.1850	-.0850	-.2890
270.000	1.3449	1.3420													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-737 IA9 OEA + S3 + T9 EXTERNAL TANK (RUNTD3)

MACH (4) = 1.248 BETAT (7) = 8.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0450	-.0280	-.0500
30.000	-.0480	-.0040	-.0460
60.000	-.0440	.0130	-.0480
90.000			-.1190
120.000	-.0780	-.0740	-.1520
135.000	-.0780	-.0760	-.1540
150.000	-.0680	-.1080	-.1930
165.000		-.2960	-.2390
180.000	-.3440		

MACH (4) = 1.251 BETAT (8) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0152	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3210	1.0560	.3940	-.0200	-.2800	-.3380	-.4120	-.3770	-.0070	.0460	-.0750	-.2710	-.1630	-.0950	-.0180
30.000	1.3210		.3500	-.0430	-.2990	-.3500	-.4180	-.3740	-.0070	-.0110	-.0740	-.2340	-.2310	-.0850	-.0500
60.000	1.3210		.3530	-.0480	-.2990	-.3580	-.4210	-.1680	-.0420	-.1300	-.2810	-.2000	-.1370	-.0620	-.0320
90.000	1.3210	1.0450	.3870	-.0220	-.2890	-.3620	-.4240	-.0890	.3670	-.3240	-.3070	-.4410	-.2670	-.4140	-.1100
120.000	1.3210		.4680	.0510	-.2400	-.3180	-.3110	-.2050	.2350	.2900	.0470	-.0250	.1010	-.0780	-.2780
135.000	1.3210							-.2750		.3740		.0080		-.1170	
150.000	1.3210		.6170	.1830	-.1420	-.2300	-.3100	-.2740	.1860	.3430	-.1930	-.0460	.0510	-.1650	-.3780
165.000	1.3210			.2530	-.0900	-.1760	-.2590	-.2290	.2560	.4350	-.2770		.0970		-.4060
180.000	1.3210	1.3560	.7750	.3180	-.0340	-.1230	-.2110	-.1710	.2660	.5750	-.2580	-.2250	.1420	-.0570	-.2870
270.000	1.3210	1.3560													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0440	-.0380	-.0400
30.000	-.0420	-.0270	-.0410
60.000	-.0220	-.0090	-.0680
90.000			-.1320
120.000	-.0720	-.0470	-.2250
135.000	-.1010	-.0930	-.2230
150.000	-.1570	-.0930	-.2480
165.000		-.3010	-.2600
180.000	-.3690		

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .300
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .598 BETAT (1) = -8.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L*	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	.9870	.7460	.0450	-.3390	-.4300	-.4020	-.2860	-.1650	-.1380	-.1450	-.1230	-.1140	-.0940	-.0890	-.0770
30.000	.9870		.1460	-.3030	-.4150	-.4010	-.3150	-.2260	-.2240	-.2230	-.1250	-.1440	-.1190	-.1190	-.1300
60.000	.9870		.3130	-.1250	-.3040	-.2890	-.2220	-.1450	-.2610	-.4500	-.1650	-.1260	-.1190	-.1330	-.0430
90.000	.9870	1.0330	.4590	.0180	-.1570	-.1390	-.0260	.0910	.1140	-1.1830	-.5070	-.3500	-.2140	-.1450	-.1090
120.000	.9870		.5480	.1060	-.1010	-.0800	.0090	.1060	.1720	-.0310	.0080	.0150	.0100	.0180	.0200
135.000	.9870							.0790		.0730		.0230		.0090	
150.000	.9870		.5260	.0830	-.1330	-.1250	-.0420	.0480	.1290	.1150	.0280	-.0080	-.0420	-.0390	-.0070
165.000	.9870			.0250	-.1820	-.1730	-.0790	.0090	.1250	.1290	-.0370		-.1410		-.0930
180.000	.9870	.9990	.3970	-.0430	-.2240	-.2120	-.1200	-.0280	.0920	.0570	-.1740	-.2160	-.2300	-.2220	-.1790
270.000	.9870	.6820													

X/L*	.7449	.8528	.9290
PHI			
.000	-.1160	-.1570	-.4430
30.000	-.1190	-.1600	-.4430
60.000	-.0830	-.1440	-.3580
90.000			-.4780
120.000	.0980	-.0970	-.4730
135.000	.0950	-.0700	-.5120
150.000	.0750	-.0510	-.5250
165.000		-.0950	-.4630
180.000	-.1040		

MACH (1) = .597 BETAT (2) = -8.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L*	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.0220	.7720	.0770	-.3200	-.4120	-.3840	-.2670	-.1660	-.1230	-.1270	-.1080	-.0950	-.0820	-.0780	-.0800
30.000	1.0220		.1480	-.3020	-.4080	-.3920	-.2910	-.1980	-.1960	-.1990	-.1080	-.1210	-.0980	-.0980	-.1090
60.000	1.0220		.2780	-.1560	-.3140	-.2980	-.2200	-.1340	-.2470	-.4480	-.1620	-.1260	-.1110	-.1570	-.0510
90.000	1.0220	1.0330	.4140	-.0320	-.1910	-.1630	-.0410	.0770	.1100	-1.2040	-.5370	-.3780	-.2310	-.1510	-.1030
120.000	1.0220		.5010	.0830	-.1350	-.1150	-.0060	.0920	.1670	-.0470	-.0160	-.0100	-.0150	-.0040	-.0010
135.000	1.0220							.0660		.0520		-.0080		-.0110	
150.000	1.0220		.5020	.0580	-.1470	-.1370	-.0480	.0420	.1290	.0980	.0050	-.0280	-.0470	-.0390	-.0030

AMES 11-7D7 IA9 C2A + S3 + T9 EXTERNAL TANK (RDNTD4)

MACH (1) = .597 BETAT (2) = -6.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.0220			.0220	-.1730	-.1690	-.0900	.0150	.1320	.1260	-.0520		-.1190		-.0540
180.000	1.0220	1.0340	.4190	-.0240	-.2090	-.1980	-.0980	-.0080	.1220	.0840	-.0490	-.1620	-.1760	-.1610	-.1170
270.000	1.0220	.7820													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0890	-.1370	-.4140
30.000	-.1320	-.1430	-.4310
60.000	-.0760	-.1410	-.3660
90.000			-.4300
120.000	.0690	-.1180	-.4340
135.000	.0710	-.1070	-.4920
150.000	.0350	-.0910	-.5040
165.000		-.1420	-.4110
180.000	-.0540		

MACH (1) = .599 BETAT (3) = -4.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0400	.7890	.0850	-.3110	-.4050	-.3760	-.2560	-.1530	-.1100	-.1110	-.0960	-.0810	-.0700	-.0630	-.0450
30.000	1.0400		.1390	-.2870	-.4010	-.3750	-.2750	-.1740	-.1680	-.1760	-.0960	-.1030	-.0840	-.0780	-.0930
60.000	1.0400		.2410	-.1870	-.3240	-.3070	-.2140	-.1290	-.2260	-.4430	-.1780	-.1250	-.1040	-.1300	-.0770
90.000	1.0400	1.0090	.3580	-.0830	-.2250	-.1910	-.0570	.0700	.1140	-1.2320	-.5410	-.3750	-.2370	-.1630	-.1010
120.000	1.0400		.4510	.0090	-.1630	-.1420	-.0330	.0800	.1610	-.0580	-.0420	-.0310	-.0320	-.0200	-.0150
135.000	1.0400							.0570		.0390		-.0300		-.0270	
150.000	1.0400		.4860	.0400	-.1590	-.1460	-.0530	.0440	.1300	.0870	-.0130	-.0350	-.0580	-.0450	-.0090
165.000	1.0400			.0190	-.1750	-.1680	-.0890	.0290	.1410	.1250	-.0520		-.0990		-.0310
180.000	1.0400	1.0540	.4440	-.0090	-.1950	-.1860	-.0910	.0060	.1370	.1040	-.0500	-.1200	-.1360	-.1080	-.0850
270.000	1.0400	.8220													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0800	-.1220	-.4070
30.000	-.0810	-.1420	-.4200
60.000	-.0810	-.1420	-.3740
90.000			-.4170
120.000	.0480	-.1420	-.4410
135.000	.0480	-.1410	-.4680
150.000	.0460	-.1410	-.4670

MACH (1) = .598 BETAT (3) = -4.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1880	-.3440
180.000	-.0110		

MACH (1) = .599 BETAT (4) = -2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0530	.7960	.0960	-.3060	-.4020	-.3720	-.2470	-.1430	-.1000	-.1020	-.0860	-.0690	-.0570	-.0480	-.0290
30.000	1.0530		.1250	-.3140	-.4080	-.3720	-.2510	-.1480	-.1420	-.1570	-.0840	-.0870	-.0690	-.0610	-.0700
60.000	1.0530		.2030	-.2270	-.3420	-.3040	-.2020	-.1160	-.1990	-.4260	-.1690	-.1180	-.0990	-.0750	-.1060
90.000	1.0530	.9720	.3040	-.1360	-.2560	-.2060	-.0660	.0630	.1200	-1.2730	-.6040	-.3940	-.2470	-.1670	-.0980
120.000	1.0530		.3930	-.0430	-.2030	-.1670	-.0470	.0720	.1600	-.0620	-.0590	-.0520	-.0470	-.0330	-.0240
135.000	1.0530							.0450		.0250		-.0500		-.0380	
150.000	1.0530		.4540	.0040	-.1760	-.1660	-.0740	.0330	.1230	.0660	-.0590	-.0550	-.0730	-.0550	-.0230
165.000	1.0530			.0080	-.1870	-.1650	-.0820	.0320	.1440	.1150	-.0530		-.0880		-.0220
180.000	1.0530	1.0710	.4510	-.0060	-.1900	- 1670	-.0750	.0250	.1470	.1220	-.0540	-.0910	-.0980	-.0790	-.0270
270.000	1.0530	.8780													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0590	-.1060	-.4010
30.000	-.0590	-.1180	-.4060
60.000	-.0750	-.1290	-.4020
90.000			-.4280
120.000	.0300	-.1540	-.4190
135.000	.0280	-.1630	-.4400
150.000	.0270	-.1780	-.4270
165.000		-.2480	-.3060
180.000	.0090		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTD4)

MACH (1) = .600 BETAT (5) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0550	.7920	.1000	-.3030	-.3960	-.3610	-.2440	-.1400	-.0950	-.0990	-.0830	-.0650	-.0550	-.0490	-.0240
30.000	1.0550		.1110	-.3140	-.3930	-.3600	-.2440	-.1370	-.1220	-.1400	-.0810	-.0810	-.0540	-.0550	-.0820
60.000	1.0550		.1620	-.2540	-.3420	-.3050	-.2010	-.1040	-.1800	-.4080	-.1700	-.0860	-.1080	-.0800	-.0850
90.000	1.0550	.9280	.2460	-.1820	-.2740	-.2280	-.0800	.0640	.1240	-1.3130	-.5990	-.3990	-.2650	-.1790	-.1080
120.000	1.0550		.3360	-.0890	-.2310	-.2030	-.0660	.0570	.1540	-.0740	-.0780	-.0720	-.0670	-.0420	-.0350
135.000	1.0550							.0300		.0070		-.0770		-.0510	
150.000	1.0550		.4240	-.0200	-.1980	-.1870	-.0890	.0200	.1100	.0410	-.0760	-.0840	-.0920	-.0690	-.0280
165.000	1.0550			-.0010	-.1880	-.1770	-.0930	.0260	.1310	.0930	-.0770		-.0960		-.0280
180.000	1.0550	1.0780	.4520	.0030	-.1810	-.1670	-.0770	.0300	.1470	.1260	-.0770	-.0840	-.0960	-.0770	-.0280
270.000	1.0550	.9280													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0580	-.1010	-.3680
30.000	-.0570	-.1040	-.3360
60.000	-.0940	-.1300	-.3580
90.000			-.4520
120.000	-.0080	-.1780	-.4440
135.000	-.0060	-.1930	-.4410
150.000	.0090	-.2270	-.3890
165.000		-.3180	-.2550
180.000	.0140		

MACH (1) = .599 BETAT (6) = 2.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0540	.7910	.0920	-.3030	-.4020	-.3710	-.2480	-.1440	-.0990	-.1020	-.0870	-.0690	-.0550	-.0510	-.0280
30.000	1.0540		.0890	-.3290	-.3920	-.3550	-.2350	-.1280	-.1050	-.1300	-.0860	-.0770	-.0500	-.0470	-.0560
60.000	1.0540		.1240	-.2840	-.3550	-.3040	-.1830	-.0880	-.1480	-.3920	-.1570	-.0750	-.1030	-.0560	-.0420
90.000	1.0540	.8810	.1850	-.2290	-.2980	-.2390	-.0840	.0630	.1360	-1.3550	-.5920	-.4090	-.2740	-.1910	-.1230
120.000	1.0540		.2740	-.1430	-.2670	-.2200	-.0870	.0440	.1480	-.0800	-.0960	-.0840	-.0830	-.0550	-.0420
135.000	1.0540							.0130		-.0080		-.0950		-.0650	
150.000	1.0540		.3810	-.0510	-.2260	-.2050	-.0960	.0070	.0960	.0140	-.0910	-.1050	-.1050	-.0860	-.0420
165.000	1.0540			-.0225	-.2030	-.1890	-.0890	.0100	.1210	.0610	-.1010		-.1130		-.0420
180.000	1.0540	1.0730	.4520	-.0010	-.1870	-.1670	-.0780	.0240	.1470	.1200	-.0980	-.0880	-.1010	-.0800	-.0380
270.000	1.0540	.9720													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-7D7 IA9 ORA ◆ S3 ◆ T9 EXTERNAL TANK (RUNTD6)

MACH (1) = .599 BETAT (6) = 2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0820	-.1070	-.3950
30.000	-.0390	-.1030	-.3680
60.000	-.0880	-.1490	-.3730
90.000			-.4260
120.000	-.0020	-.1860	-.4230
135.000	-.0030	-.2090	-.4200
150.000	-.0140	-.2950	-.3520
165.000		-.3650	-.2300
180.000	.0090		

MACH (1) = .599 BETAT (7) = 4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1096	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0410	.7770	.0820	-.3130	-.4110	-.3830	-.2600	-.1540	-.1110	-.1130	-.0990	-.0810	-.0730	-.0650	-.0500
30.000	1.0410		.0580	-.3390	-.3980	-.3510	-.2320	-.1210	-.0970	-.1220	-.0970	-.0720	-.0580	-.0510	-.0350
60.000	1.0410		.0770	-.3160	-.3550	-.3010	-.1760	-.0750	-.1240	-.3720	-.1510	-.0990	-.1020	-.0810	-.0390
90.000	1.0410	.6200	.1220	-.2740	-.3180	-.2520	-.0840	.0640	.1460	-1.3790	-.6020	-.4240	-.2840	-.1990	-.1310
120.000	1.0410		.2100	-.1980	-.2920	-.2490	-.1110	.0260	.1380	-.0880	-.1120	-.1040	-.0960	-.0880	-.0520
135.000	1.0410							-.0110		-.0340		-.1250		-.0920	
150.000	1.0410		.3370	-.0840	-.2510	-.2270	-.1260	-.0190	.0650	-.0240	-.1360	-.1400	-.1410	-.1140	-.0720
165.000	1.0410			-.0410	-.2260	-.2140	-.1090	-.0120	.0960	.0200	-.1430		-.1500		-.0810
180.000	1.0410	1.0620	.4520	-.0050	-.1960	-.1820	-.0920	.0100	.1310	.1020	-.1430	-.1220	-.1340	-.1120	-.0700
270.000	1.0410	1.0070													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0740	-.1240	-.3950
30.000	-.0730	-.1070	-.3870
60.000	-.0890	-.1420	-.3840
90.000			-.4480
120.000	-.0060	-.1720	-.3940
135.000	-.0100	-.1780	-.3370
150.000	-.0350	-.2320	-.2680
165.000		-.3140	-.2000
180.000	-.5180		

AMES 11-707 IA9 CRA + 53 + T9 EXTERNAL TANK (RUNT04)

MACH (1) = .8[illegible] BETAT (8) = 6.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0140	.7520	.0620	-.3290	-.4220	-.3940	-.2730	-.1680	-.1280	-.1270	-.1160	-.1000	-.0840	-.0740	-.0630
30.000	1.0140		.0280	-.3570	-.3960	-.3510	-.2240	-.1130	-.0890	-.1240	-.1110	-.0770	-.0730	-.0810	-.0650
60.000	1.0140		.0350	-.3390	-.3570	-.2920	-.1600	-.0550	-.0960	-.3410	-.1400	-.0790	-.0940	-.0720	-.0480
90.000	1.0140	.7450	.0750	-.3130	-.3220	-.2540	-.0790	.0640	.1630	-1.2990	-.5460	-.4170	-.2830	-.2010	-.1340
120.000	1.0140		.1420	-.2400	-.3170	-.2640	-.1220	.0140	.1360	-.0980	-.1230	-.1160	-.1060	-.0810	-.0540
135.000	1.0140							-.0350		-.0580		-.1500		-.1110	
150.000	1.0140		.2800	-.1460	-.2900	-.2630	-.1310	-.0460	.0360	-.0710	-.1820	-.1830	-.1780	-.1420	-.1000
165.000	1.0140			-.0810	-.2470	-.2360	-.1340	-.0350	.0660	-.0280	-.1970		-.2110		-.1310
180.000	1.0140	1.0330	.4170	-.0250	-.2090	-.1970	-.1040	-.0050	.1140	.0800	-.1930	-.1660	-.1900	-.1690	-.1270
270.000	1.0140	1.0320													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0980	-.1400	-.4210
30.000	-.0980	-.1290	-.4040
60.000	-.0700	-.1320	-.3870
90.000			-.4900
120.000	-.0220	-.1740	-.3930
135.000	-.0220	-.1730	-.3060
150.000	-.0620	-.2250	-.2510
165.000		-.3120	-.2280
180.000	-.0600		

MACH (1) = .601 BETAT (9) = 8.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	.9840	.7130	.0350	-.3510	-.4490	-.4110	-.2910	-.1830	-.1430	-.1390	-.1270	-.1110	-.1060	-.0970	-.0750
30.000	.9840		-.0070	-.3850	-.4140	-.3620	-.2220	-.1090	-.0780	-.1220	-.1220	-.0900	-.0870	-.0850	-.0790
60.000	.9840		-.0150	-.3750	-.3620	-.2850	-.1530	-.0450	-.0780	-.3160	-.1230	-.0790	-.0850	-.0800	-.0450
90.000	.9840	.8700	.0240	-.3620	-.3410	-.2520	-.0830	.0710	.1740	-1.2530	-.5190	-.4050	-.2830	-.1980	-.1170
120.000	.9840		.0830	-.2990	-.3490	-.2810	-.1410	.0040	.1260	-.1000	-.1370	-.1280	-.1170	-.0830	-.0830
135.000	.9840							-.0510		-.0750		-.1670		-.1160	
150.000	.9840		.2210	-.1910	-.3230	-.2830	-.1770	-.0720	.0070	-.1080	-.21[illegible]	-.2210	-.2190	-.1710	-.1190
165.000	.9840			-.1200	-.2800	-.2610	-.1590	-.0610	.0340	-.0760	-.2450		-.2680		-.1870
180.000	.9840	1.0080	.3970	-.0520	-.2310	-.2160	-.1260	-.0330	.0860	.0450	-.2420	-.2230	-.2450	-.2280	-.1900
270.000	.9840	1.0450													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-737 IA9 CBA + S3 + T9 EXTERNAL TANK (RUN704)

MACH (1) = .801 BETAT (9) = 8.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.1110	-.1630	-.4480
30.000	-.1090	-.1410	-.4100
60.000	-.0640	-.1340	-.4110
90.000			-.5410
120.000	-.0270	-.1990	-.3990
135.000	-.0270	-.1610	-.3090
150.000	-.0370	-.2610	-.2980
165.000		-.3700	-.2970
180.000	-.0990		

MACH (2) = .899 BETAT (1) = -8.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1280	.8970	.1860	-.2950	-.6200	-.6860	-.1520	-.0660	-.0600	-.2150	-.2430	-.1110	-.0650	-.0580	-.0280
30.000	1.1280		.2880	-.2360	-.5360	-.5720	-.2530	-.1190	-.1490	-.3850	-.2410	-.1470	-.0780	-.0690	-.0770
60.000	1.1280		.4460	-.0560	-.3810	-.3690	-.1720	-.0330	-.1040	-.6190	-.5890	-.1700	-.0420	-.0390	-.0210
90.000	1.1280	1.1790	.5870	.0640	-.2390	-.2030	.0350	.2040	.3110	-1.0170	-.5880	-.7470	-.2340	-.1010	-.0210
120.000	1.1280		.6560	.1620	-.1760	-.1550	.0340	.1910	.3020	-.1210	.0080	-.0070	-.0430	-.0440	.0370
135.000	1.1280							.1440		.0680		.0080		-.0780	
150.000	1.1280		.6310	.1330	-.2210	-.2180	-.0400	.1020	.2280	.1870	.0080	-.0120	-.1120	-.1380	.0220
165.000	1.1280			.0790	-.2720	-.2730	-.0800	.0690	.2290	.2720	-.1510		-.2320		-.0590
180.000	1.1280	1.1300	.5090	.0100	-.3410	-.3350	-.1190	.0440	.2220	.2630	-.3290	-.2150	-.3370	-.4130	-.1420
270.000	1.1280	.8380													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0850	-.1180	-.3400
30.000	-.0860	-.1160	-.2750
60.000	-.0280	-.1070	-.2510
90.000			-.3470
120.000	.1850	.0280	-.2240
135.000	.1780	.0620	-.2380
150.000	.1620	.1000	-.2540
165.000		.0380	-.2430
180.000	.0000		

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK (RBNT04)

MACH (2) = .897 BETAT (2) = -6.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1580	.9260	.2060	-.2830	-.6160	-.6740	-.1410	-.0400	-.0380	-.1930	-.3250	-.1000	-.0570	-.0390	-.0220
30.000	1.1580		.2790	-.2540	-.5530	-.5820	-.1950	-.0820	-.1090	-.3390	-.3090	-.1440	-.0710	-.0580	-.0680
60.000	1.1580		.4050	-.1030	-.4230	-.4140	-.1510	-.0140	-.0820	-.5940	-.3970	-.1930	-.0520	-.0400	-.0270
90.000	1.1580	1.1590	.5340	.0230	-.3060	-.2490	.0230	.1970	.3120	-1.0170	-.3960	-.7680	-.2240	-.0920	-.0250
120.000	1.1580		.6050	.1040	-.2290	-.2040	.0200	.1780	.3050	-.1140	-.0200	-.0450	-.0740	-.0950	.0210
135.000	1.1580							.1380		.0560		-.0270		-.1280	
150.000	1.1580		.6060	.1090	-.2410	-.2470	-.0370	.1040	.2380	.1680	-.0250	-.0360	-.1300	-.2010	.0210
165.000	1.1580			.0690	-.2760	-.2910	-.0620	.0820	.2430	.2590	-.1670		-.2090		-.0190
180.000	1.1580	1.1570	.5270	.0190	-.3300	-.3430	-.0850	.0650	.2440	.2620	-.1760	-.1660	-.2760	-.4080	-.0730
270.000	1.1580	.9280													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0730	-.1110	-.3360
30.000	-.0720	-.1100	-.2880
60.000	-.0300	-.1100	-.2590
90.000			-.3250
120.000	.1440	-.0200	-.2590
135.000	.1450	.0080	-.2590
150.000	.1410	.0300	-.2770
165.000		-.0780	-.2650
180.000	.0380		

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0005	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1740	.9330	.2150	-.2800	-.6160	-.6720	-.1160	-.0220	-.0230	-.1760	-.3120	-.0830	-.0420	-.0230	-.0120
30.000	1.1740		.2680	-.2600	-.5770	-.6340	-.1540	-.0510	-.0750	-.3000	-.3120	-.1220	-.0550	-.0400	-.0500
60.000	1.1740		.3660	-.1400	-.4860	-.3810	-.1230	.0080	-.0610	-.5760	-.5880	-.2040	-.0920	-.0330	-.0230
90.000	1.1740	1.1370	.4780	-.0340	-.3610	-.2480	.0200	.1970	.3180	-1.0300	-.5870	-.6360	-.2120	-.0810	-.0170
120.000	1.1740		.5370	.0530	-.2940	-.2180	.0100	.1730	.3080	-.1000	-.0430	-.0640	-.1010	-.0750	.0140
135.000	1.1740							.1350		.0570		-.0540		-.0900	
150.000	1.1740		.5090	.0860	-.2720	-.2430	-.0340	.1080	.2450	.1520	-.0440	-.0550	-.1480	-.1250	.0270
165.000	1.1740			.0650	-.2930	-.2690	-.0500	.0940	.2540	.2470	-.1170		-.2010		.0060
180.000	1.1740	1.1780	.5440	.0290	-.3120	-.3000	-.0710	.0830	.2560	.2460	-.1140	-.1250	-.2500	-.1700	-.0210
270.000	1.1740	.9620													

X/LT	.7449	.8525	.9290
PHI			

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTO4)

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0490	-.0950	-.3280
30.000	-.0430	-.1000	-.3010
60.000	-.0250	-.1070	-.2710
90.000			-.3250
120.000	.1300	-.0590	-.2940
135.000	.1260	-.0450	-.2770
150.000	.1300	-.0430	-.2880
165.000		-.2290	-.2570
180.000	.0780		

MACH (2) = .900 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1830	.9440	.2220	-.2700	-.6050	-.6660	-.1150	-.0150	-.0110	-.1660	-.4040	-.0760	-.0360	-.0160	-.0010
30.000	1.1830		.2560	-.2670	-.5940	-.6300	-.1200	-.0240	-.0410	-.2610	-.4080	-.1160	-.0460	-.0340	-.0520
60.000	1.1830		.3320	-.1770	-.5130	-.4500	-.0920	.0290	-.0310	-.5460	-.5820	-.2050	-.0950	-.0330	-.0250
90.000	1.1830	1.1020	.4220	-.0650	-.4330	-.2540	.0190	.2010	.3260	-1.0220	-.5870	-.6060	-.1960	-.0680	-.0110
120.000	1.1830		.5020	.0040	-.3190	-.2380	-.0010	.1690	.3130	-.0850	-.0640	-.0960	-.1360	-.0830	.0070
135.000	1.1830							.1320		.0590		-.0810		-.0990	
150.000	1.1830		.5800	.0550	-.2260	-.2590	-.0380	.1110	.2490	.1430	-.0660	-.0780	-.1820	-.1220	.0220
165.000	1.1830			.0550	-.2860	-.2750	-.0490	.1020	.2610	.2370	-.0670		-.2110		.0210
180.000	1.1830	1.1860	.5570	.0360	-.2970	-.2950	-.0590	.0950	.2700	.2760	-.0690	-.1020	-.2380	-.1360	.0080
200.000	1.1830	1.0180													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0440	-.0880	-.3220
30.000	-.0430	-.0900	-.3090
60.000	-.0330	-.1070	-.2830
90.000			-.3370
120.000	.1300	-.0960	-.3010
135.000	.1260	-.0890	-.2990
150.000	.1120	-.1320	-.3020
165.000		-.3790	-.2860
180.000	.0980		

AMES 11-70? IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTD4)

MACH (2) = .902 BETAT (5) = 2.080

SECTION (5)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	[illegible]	.3452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1455	.9425	.2235	-.2899	-.6020	-.6475	-.1100	-.0150	-.0100	-.1660	-.3780	-.0780	-.0350	-.0225	-.0025
30.000	1.1855		.2135	-.2860	-.6040	-.5360	-.0855	.0070	.0070	-.2100	-.3640	-.0875	-.0325	-.0195	-.0340
60.000	1.1455		.2480	-.2580	-.5795	-.3343	-.0460	.0650	.0210	-.4580	-.5560	-.1825	-.0440	-.0240	-.0150
90.000	1.1445	1.0180	.3175	-.1960	-.5225	-.2325	.0320	.2021	.3480	-1.0195	-.5845	-.4635	-.1835	-.0975	-.0115
120.000	1.1855		.3915	-.1256	-.4445	-.1035	-.0140	.1570	.3150	-.0620	-.1060	-.1270	-.2010	-.0685	.0025
135.000	1.1855							.1150		.0550		-.1310		-.0825	
150.000	1.1855		.4935	-.0174	-.3735	-.1195	-.0395	.0050	.2390	.1175	-.1030	-.1310	-.2785	-.1085	.0045
165.000	1.1445			.0161	-.3220	-.1960	-.0600	.0000	.2540	.2120	-.1030		-.2725		.0045
180.000	1.1355	1.1930	.5625	.0341	-.2995	-.2475	-.0625	.0060	.2600	.2740	-.1030	-.1010	-.2380	-.1310	.0050
270.000	1.1855	1.1040													

X/L? .7449 .8528 .9290

PHI			
.000	-.0485	-.1005	-.3175
30.000	-.0535	-.0955	-.3175
60.000	-.0735	-.1175	-.3275
90.000			-.3485
120.000	.0795	-.1815	-.3515
135.000	.0665	-.1880	-.3335
150.000	.0725	-.2835	-.2855
165.000		-.3205	-.2265
180.000	.0715		

MACH 2) = .903 BETAT (6) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	[illegible]	[illegible]	.3452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1755	.9265	.2135	-.2785	-.6115	-.6785	-.1225	-.0295	-.0210	-.1785	-.3765	-.0845	-.0435	-.0325	-.0185
30.000	1.1755		.1955	-.3145	-.6345	-.5235	-.0845	.0115	.0215	-.1915	-.4265	-.0855	-.0275	[illegible]	-.0255
60.000	1.1755		.2525	-.2915	-.6125	-.2625	[illegible]	.0745	.0485	-.4755	-.5705	-.1525	-.0425		-.0125
90.000	1.1755	.9805	.2955	-.2485	[illegible]	.2255	[illegible]	.2545	.3385	-1.0185	-.6655	-.4165	-.1805	-.0555	-.0125
120.000	1.1755		.3225	-.1625	[illegible]	[illegible]	[illegible]	.1475	.3195	[illegible]	[illegible]	-.1395	-.2285	-.0695	.0035
135.000	1.1755							.1155		.0855		-.1505		-.0855	
150.000	1.1755		.4445	[illegible]	[illegible]	[illegible]	[illegible]	.0155	.2395	.0685	[illegible]	-.1815	[illegible]	-.1205	-.0185
165.000	1.1755			[illegible]	[illegible]	[illegible]	[illegible]	.0005	.2595	.1955	[illegible]		[illegible]		-.0345
180.000	1.1755	1.1815	.4915	.0345	[illegible]	[illegible]	[illegible]	.0045	.2645	.2775	[illegible]	-.1225	-.2915	-.1045	-.0285
270.000	1.1755	1.1545													

X/L? [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] .993 [illegible] 8.18

SECTION [illegible] EXTERNAL TANK [illegible] DEPENDENT VARIABLE CP

X/L?	.7449	.8528	.9290
PHI			
[illegible]	[illegible]	-.0990	-.3290
[illegible]	[illegible]	-.1080	-.3280
[illegible]	[illegible]	[illegible]	-.3360
[illegible]			-.3820
[illegible]	.0690	-.1490	-.3930
[illegible]	[illegible]	-.1720	-.3250
[illegible]	[illegible]	-.2170	-.2780
[illegible]		-.2270	-.2270
[illegible]	[illegible]		

[illegible] .993 [illegible] 8.19

SECTION [illegible] EXTERNAL TANK [illegible] DEPENDENT VARIABLE CP

X/L?	[illegible]	[illegible]	.7452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5385	.6378
PHI															
[illegible]	1.1510	.9960	.1980	-.2830	-.6180	-.6800	-.1470	-.0470	-.0400	+.1970	+.5020	+.1000	-.0330	-.0300	-.0280
[illegible]	1.1510		.1560	-.3320	-.6480	-.4010	-.0890	.0060	.0280	-.1850	+.4400	-.0720	-.0340	-.0290	-.0330
[illegible]	1.1510		.1560	-.3280	-.6360	-.2020	-.1290	.0730	.0680	-.4490	+.3400	-.1060	-.0390	-.0290	-.0130
[illegible]	1.1510	.8040	.1970	-.2910	-.5080	-.1780	.0340	.2070	.3690	-.9900	-.7760	+.3930	-.1840	-.0800	-.0150
[illegible]	1.1510		.2820	-.2160	-.7410	-.3030	-.0210	.1420	.5130	-.0590	-.2310	-.1480	-.2490	-.0460	-.0030
[illegible]	1.1510							.0880		.1070		-.1790		-.0830	
[illegible]	1.1510		.3950	-.0980	-.4240	-.4690	-.0990	.0550	.2040	.0550	-.5200	-.2990	-.3550	-.1250	-.0540
[illegible]	1.1510			-.0370	-.3740	-.3030	-.1040	.0560	.2140	.1420	-.4680		-.3430		-.0810
[illegible]	1.1510	1.1560	.5270	.0190	-.3250	-.3320	-.1020	.0640	.2370	.2530	-.4030	-.1660	-.2880	-.3080	-.0880
[illegible]	1.1510	1.1390													

X/L?	.7449	.8528	.9290
PHI			
.000	-.0730	-.0930	-.3210
30.000	-.0510	-.0930	-.3330
60.000	-.0440	-.1100	-.3330
90.000			-.3810
120.000	.0480	-.1580	-.3150
135.000	.0470	-.1620	-.2760
150.000	.0440	-.2210	-.2430
163.000		-.3480	-.2570
180.000	.0390		

AMES 1-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (2) = .898 BETAT (8) = 8.240

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1270	.8810	.1770	-.3030	-.6250	-.6930	-.1690	-.0680	-.0660	-.2180	-.2530	-.1180	-.0680	-.0840	-.0550
30.000	1.1270		.1250	-.3590	-.6720	-.3650	-.0960	.0040	.0240	-.1900	-.4150	-.0820	-.0480	-.0390	-.0550
60.000	1.1270		.1160	-.3660	-.6630	-.1960	-.0370	.0730	.0870	-.4280	-.5380	-.0620	-.0390	-.0280	-.0190
90.000	1.1270	.8320	.1490	-.3440	-.6440	-.1720	.0310	.1150	.3750	-.9620	-.7910	-.3910	-.1720	-.0440	-.0100
120.000	1.1270		.2100	-.2670	-.5940	-.5050	-.0220	.1350	.3020	-.0480	-.3800	-.1610	-.2500	-.0870	-.0210
135.000	1.1270							.0670		.0200		-.2100		-.1090	
150.000	1.1270		.3490	-.1430	-.4740	-.3290	-.1140	.0290	.1800	.0160	-.6940	-.2500	-.3910	-.1730	-.0470
165.000	1.1270			-.0690	-.4120	-.4450	-.1290	.0230	.1900	.1050	-.6270		-.3920		-.1350
180.000	1.1270	1.1320	.5050	.0010	-.3460	-.3630	-.1200	.0370	.2150	.2450	-.6230	-.2240	-.3310	-.4540	-.1540
270.000	1.1270	1.1740													

X/LT	.7440	.8526	.9290
PHI			
.000	-.0780	-.1160	-.3240
30.000	-.0770	-.0950	-.3300
60.000	-.0400	-.1150	-.3110
90.000			-.3690
120.000	.0300	-.1840	-.3120
135.000	.0310	-.1280	-.2780
150.000	.0450	-.2500	-.2800
165.000		-.3420	-.2780
180.000	-.0140		

MACH (3) = 1.100 BETAT (1) = -8.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2630	1.0530	.3900	-.0510	-.3590	-.4300	-.5110	-.0940	.0180	.0160	-.1850	-.3230	-.0980	-.0510	-.0170
30.000	1.2630		.4850	.0230	-.3060	-.3770	-.4700	-.3060	.0210	-.1430	-.4340	-.1470	-.0990	-.0990	-.1030
60.000	1.2630		.6180	.1500	-.2060	-.2820	-.3860	.0210	.0870	-.2890	-.5220	-.1440	-.0350	-.0710	-.0870
90.000	1.2630	1.3030	.7420	.2650	-.1100	-.1960	-.2630	.3570	.4870	-.5410	-.3820	-.4200	-.0620	-.1480	-.0870
120.000	1.2630		.7990	.3260	-.0590	-.1450	-.2530	.2210	.4680	.1340	.2010	.1780	.1130	.0110	-.2040
135.000	1.2630							.1100		.2700		.1800		-.0020	
150.000	1.2630		.7780	.3030	-.0790	-.1680	-.2700	-.1040	.3920	.3790	.0090	.1400	.0910	-.0780	-.2150
165.000	1.2630			.2570	-.1230	-.1980	-.2990	-.2480	.3960	.4680	-.0650		.0080		-.3010
180.000	1.2630	1.2360	.6700	.1970	-.1650	-.2420	-.3450	-.2940	.4000	.4650	-.1890	.1190	-.0840	-.2420	-.4370
270.000	1.2630	.9970													

X/LT	.7449	.8526	.9290
PHI			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0860	-.0150	-.1090
30.000	-.0680	-.0260	-.0660
60.000	-.0050	-.0010	-.0770
90.000			-.1630
120.000	.1670	.1910	-.0570
135.000	.1800	.2410	-.0490
150.000	.1870	.2850	-.0500
165.000		.2420	-.0730
180.000	.0090		

MACH (3) = 1.099 BETAT (2) = -6.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.3027	.5565	.9372
PHI															
.000	1.2860	1.0750	.4020	-.0430	-.3530	-.4190	-.5000	-.0930	.0270	.0590	-.1470	-.3410	-.0770	-.0150	-.0140
30.000	1.2860		.4720	.0180	-.3140	-.3830	-.4750	-.3580	.0540	-.0850	-.3780	-.1490	-.0950	-.0720	-.0080
60.000	1.2860		.5800	.1100	-.2340	-.3100	-.4110	-.0310	.1080	-.2780	-.3320	-.1390	-.0480	-.0380	-.0030
90.000	1.2860	1.2630	.6950	.2150	-.1560	-.2380	-.3430	.2310	.4870	-.3470	-.3040	-.4250	-.0920	-.1300	-.0910
120.000	1.2860		.7550	.2830	-.0980	-.1830	-.2860	.1640	.4870	.1380	.0950	.1730	.0780	-.0140	-.2350
135.000	1.2860							-.0220		.2890		.1890		-.0220	
150.000	1.2860		.7540	.2810	-.1050	-.1840	-.2870	-.2230	.4230	.3840	-.0480	.1980	.0800	-.0840	-.2380
165.000	1.2860			.2490	-.1280	-.2060	-.3030	-.2580	.4300	.4710	-.0830		.0080		-.2930
180.000	1.2860	1.2800	.6850	.2070	-.1570	-.2400	-.3340	-.2860	.4300	.4830	-.1823	.1370	-.0900	-.1910	-.4100
270.000	1.2860	1.0620													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0730	-.0080	-.1110
30.000	-.0670	-.0190	-.0780
60.000	-.0230	.0080	-.0740
90.000			-.1440
120.000	.1420	.1520	-.1420
135.000	.1640	.1910	-.1260
150.000	.1880	.2140	-.1270
165.000		.0850	-.1050
180.000	.0880		

AMES 11-707 IA9 OEA • S3 • T9 EXTERNAL TANK (REVTD4)

MACH (3) = 1.101 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3000	1.0830	.4120	-.0410	-.3500	-.4150	-.4960	-.0900	.0360	.0800	-.1140	-.3490	-.0970	.0210	-.0020
30.000	1.3000		.4620	.0030	-.3250	-.3890	-.4790	-.3820	.0640	-.0280	-.3470	-.1590	-.0780	-.0350	-.0750
60.000	1.3000		.5470	.0800	-.2600	-.3360	-.4310	-.0850	.1260	-.2580	-.5440	-.1170	-.0430	-.0490	-.0750
90.000	1.3000	1.2610	.6440	.1680	-.1930	-.2760	-.3740	.1320	.4930	-.5470	-.5350	-.4210	-.0880	-.1320	-.0980
120.000	1.3000		.7130	.2380	-.1340	-.2180	-.3170	.1200	.5020	.1800	-.0210	.1620	.0810	-.0480	-.2370
135.000	1.3000							-.1540		.3030		.1630		-.0510	
150.000	1.3000		.7390	.2600	-.1220	-.2030	-.3040	-.2520	.4420	.3900	-.0900	.1990	.0550	-.0970	-.2590
165.000	1.3000			.2460	-.1270	-.2150	-.3060	-.2600	.4520	.4720	-.1210		.0220		-.2990
180.000	1.3000	1.2980	.7000	.2150	-.1510	-.2340	-.3270	-.2590	.4520	.4970	-.2820	.1630	.0090	-.1790	-.3490
270.000	1.3000	1.1090													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0640	.0000	-.0980
30.000	-.0640	-.0120	-.1030
60.000	-.0360	.0000	-.0820
90.000			-.1430
120.000	.1340	.1080	-.1430
135.000	.1570	.1270	-.1790
150.000	.1750	.1280	-.1780
165.000		-.0290	-.1400
180.000	.1350		

MACH (3) = 1.101 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3100	1.0920	.4170	-.0370	-.3530	-.4150	-.4930	-.1200	.0320	.0980	-.0780	-.3490	-.0900	.0380	-.0170
30.000	1.3100		.4470	-.0280	-.3410	-.4030	-.4870	-.3490	.0470	.0190	-.2740	-.1690	-.0800	.0080	-.0800
60.000	1.3100		.5120	.0410	-.2900	-.3600	-.4520	-.0690	.1480	-.2320	-.5280	-.0870	-.0380	-.0430	-.0800
90.000	1.3100	1.2340	.5940	.1180	-.2330	-.3110	-.4050	.0700	.5070	-.5490	-.5170	-.4190	-.1290	-.1330	-.0990
120.000	1.3100		.6640	.1900	-.1750	-.2530	-.3500	.1120	.5070	.1990	-.0490	.1680	.0680	-.0610	-.2790
135.000	1.3100							-.1450		.3130		.1650		-.0480	
150.000	1.3100		.7110	.2320	-.1470	-.2230	-.3210	-.2660	.4490	.3850	-.1310	.1680	.0390	-.1220	-.2990
165.000	1.3100			.2320	-.1400	-.2240	-.3200	-.2680	.4540	.4890	-.2270		.0280		-.3490
180.000	1.3100	1.3090	.7110	.2190	-.1510	-.2250	-.3300	-.2760	.4510	.4680	-.2460	.1760	.0230	-.1870	-.3210
270.000	1.3100	1.1540													

X/LT	.7449	.8526	.9290
PHI			

MACH (3) = 1.101 BETAT (4) = -2.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0760	.0030	-.0620
30.000	-.0640	-.0080	-.1000
60.000	-.0380	-.0090	-.0830
90.000			-.1510
120.000	.1210	.0650	-.1690
135.000	.1380	.0730	-.2210
150.000	.1580	.0630	-.1940
165.000		-.0910	-.1630
180.000	.1480		

MACH (3) = 1.099 BETAT (5) = 2.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3100	1.0690	.4170	-.0350	-.3490	-.4150	-.4940	-.1440	.0510	.1030	-.0720	-.3360	-.0370	.0420	.0190
30.000	1.3100		.4110	-.0520	-.3550	-.4210	-.4990	-.1470	.0140	.0860	-.1990	-.2210	-.0510	.0260	-.0680
60.000	1.3100		.4370	-.0260	-.3410	-.4040	-.4860	-.0880	.1910	-.1720	-.4690	-.1370	-.0540	-.0230	-.0720
90.000	1.3100	1.1530	.4930	.0270	-.3070	-.3760	-.4620	.0010	.4960	-.5340	-.4650	-.4260	-.1690	-.1540	-.1090
120.000	1.3100		.5630	.1000	-.2470	-.3250	-.3320	.0660	.3500	.2390	-.0680	.1040	.0080	-.1570	-.3080
135.000	1.3100							.0750		.3150		.1120		-.1760	
150.000	1.3100		.6510	.1820	-.1830	-.2690	-.3600	.0110	.3650	.3570	-.2220	.1340	-.0110	-.2020	-.3440
165.000	1.3100			.2050	-.1640	-.2440	-.3390	-.2790	.3960	.4370	-.2920		.0050		-.3440
180.000	1.3100	1.3090	.7120	.2230	-.1500	-.2260	-.3280	-.2740	.4300	.5090	-.3160	.1850	.0310	-.1650	-.3170
270.000	1.3100	1.2340													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0790	.0080	-.0840
30.000	-.0530	.0120	-.0880
60.000	-.0330	-.0150	-.1080
90.000			-.2010
120.000	.1030	-.0140	-.2310
135.000	.1030	-.0240	-.2290
150.000	.1230	-.0870	-.2440
165.000		-.2130	-.2570
180.000	.1520		

AMES 11-707 IA9 CEA ◆ S3 ◆ T9 EXTERNAL TANK (RBNTO4)

MACH (3) = 1.098 BETAT (6) = 4.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2970	1.0750	.4110	-.0370	-.3510	-.4170	-.4970	-.1090	.0210	.0720	-.1150	-.3180	-.0730	.0110	.0040
30.000	1.2970		.3870	-.0680	-.3670	-.4300	-.5070	-.0740	-.0070	.0230	-.1620	-.2400	-.0820	.0020	-.0730
60.000	1.2970		.3980	-.0360	-.3570	-.4200	-.2230	-.0830	.0170	-.1420	-.3640	-.1460	-.0710	-.0510	-.0730
90.000	1.2970	1.1030	.4460	-.0160	-.3340	-.4070	-.0540	-.0540	.4340	-.5230	-.4610	-.3490	-.3210	-.1770	-.1390
120.000	1.2970		.5120	.0550	-.2810	-.3530	-.0310	.0170	.3080	.2380	-.0680	.0790	-.0190	-.1800	-.3400
135.000	1.2970							.0020		.3110		.0730		-.2180	
150.000	1.2970		.6140	.1470	-.2080	-.2980	-.3830	-.1550	.3620	.3290	-.2540	.0970	-.0470	-.2460	-.3840
165.000	1.2970			.1850	-.1820	-.2630	-.3530	-.3090	.4020	.4080	-.3420		-.0320		-.3840
180.000	1.2970	1.2970	.7030	.2170	-.1520	-.2330	-.3310	-.2790	.4310	.4960	-.3560	.1720	.0070	-.1780	-.3470
270.000	1.2970	1.2610													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0780	.0080	-.1030
30.000	-.0450	.0160	-.0850
60.000	-.0300	-.0140	-.1120
90.000			-.2120
120.000	.0980	-.0330	-.2120
135.000	.1000	-.0500	-.2040
150.000	.1080	-.0820	-.2030
165.000		-.3330	-.2140
180.000	.1350		

MACH (3) = 1.100 BETAT (7) = 6.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2840	1.0630	.4000	-.0430	-.3520	-.4210	-.4990	-.0810	.0240	.0550	-.1490	-.3080	-.0830	-.0220	-.0210
30.000	1.2840		.3610	-.0830	-.3780	-.4380	-.2710	-.0690	-.0060	-.0220	-.1730	-.2810	-.0950	-.0180	-.0730
60.000	1.2840		.3650	-.0840	-.3730	-.4380	-.1150	-.0760	-.0380	-.1320	-.2950	-.1980	-.0830	-.0440	-.0730
90.000	1.2840	1.0490	.3970	-.0510	-.3570	-.4250	-.0370	-.0690	.5000	-.5120	-.4530	-.2450	-.3010	-.2090	-.1560
120.000	1.2840		.4540	.0160	-.3110	-.3860	-.1200	-.0400	.4350	.2590	-.1110	.0640	-.0300	-.2060	-.3660
135.000	1.2840							-.0600		.3000		.0330		-.2510	
150.000	1.2840		.5700	.1130	-.2360	-.3180	-.3990	-.3150	.3920	.3000	-.3000	.0670	-.0790	-.2870	-.4460
165.000	1.2840			.1620	-.2010	-.2780	-.3650	-.3230	.4050	.3730	-.3830		-.0730		-.4670
180.000	1.2840	1.2830	.6860	.2060	-.1530	-.2370	-.3370	-.2850	.4210	.4810	-.3840	.1380	-.0310	-.2070	-.4100
270.000	1.2840	1.2580													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK (RUNT04)

MACH (3) = 1.200 BETAT (7) = 6.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8326	.9290
PHI			
.000	-.0680	-.0030	-.1230
30.000	-.0490	.0150	-.0910
60.000	-.0100	.0000	-.1110
90.000			-.1840
120.000	.0660	-.0470	-.1840
135.000	.0650	-.0510	-.2200
150.000	.0550	-.1370	-.2370
165.000		-.2930	-.2610
180.000	.0750		

MACH (3) = 1.098 BETAT (8) = 8.290

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2620	1.0380	.3800	-.0810	-.3670	-.4340	-.5030	-.0890	.0140	.0350	-.1860	-.2880	-.0980	-.0430	-.0180
30.000	1.2620		.3280	-.1080	-.3960	-.4560	-.1470	-.0760	-.0100	-.0890	-.2170	-.3250	-.1140	-.0240	-.0680
60.000	1.2620		.3230	-.1160	-.3980	-.4510	-.0930	-.0800	-.0960	-.1250	-.2640	-.2050	-.0910	-.0310	-.0850
90.000	1.2620	.9930	.3530	-.0940	-.3890	-.4140	-.0500	-.0930	.5540	-.4990	-.4500	-.1960	-.3010	-.2120	-.1620
120.000	1.2620		.4050	-.0330	-.3490	-.4160	-.2330	-.0680	.4180	.2610	-.1310	.0430	-.0450	-.2350	-.4030
135.000	1.2620							-.0490		.2800		.0200		-.2850	
150.000	1.2620		.5300	.0740	-.2640	-.3420	-.4330	-.3350	.3730	.2550	-.3460	.0510	-.1210	-.3420	-.5160
165.000	1.2620			.1320	-.2200	-.2980	-.3870	-.3430	.3770	.3330	-.4130		-.1230		-.5730
180.000	1.2620	1.2630	.6720	.1910	-.1650	-.2480	-.3500	-.2940	.3860	.4570	-.4320	.0470	-.0580	-.2660	-.4480
270.000	1.2620	1.3010													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0810	-.0120	-.1140
30.000	-.0500	.0190	-.1140
60.000	-.0200	-.0020	-.1150
90.000			-.2000
120.000	.0470	-.0780	-.2580
135.000	-.0050	-.0640	-.2580
150.000	-.0080	-.2450	-.2750
165.000		-.3270	-.2670
180.000	.0080		

AMES 11-7X7 IA9 OEA + S3 + T9 EXTERNAL TANK (RUNTD61)

MACH (4) = 1.248 BETAT (1) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6379
PHI															
.000	1.3420	1.1250	.4450	.0180	-.2640	-.3260	-.4020	-.3630	-.0440	.0680	-.0810	-.2830	-.1990	-.0890	-.0540
30.000	1.3420		.5410	.1040	-.2050	-.2710	-.3610	-.3240	-.0750	-.1350	-.3420	-.2370	-.0720	-.0380	-.1780
60.000	1.3420		.6800	.2200	-.1090	-.1830	-.2830	-.2150	.1230	-.1910	-.5920	-.2180	-.0480	-.0610	-.0150
90.000	1.3420	1.3800	.8030	.3340	-.0190	-.1060	-.2000	-.1130	.5440	-.3390	-.5810	-.2660	-.2980	-.1280	-.0820
120.000	1.3420		.8610	.3900	.0260	-.0590	-.1570	-.1190	.4700	.2260	-.0680	.2130	.2740	.1120	-.0770
135.000	1.3420							-.1240		.3610		.2070		.1300	
150.000	1.3420		.8340	.3680	.0020	-.0800	-.1730	-.1390	.2990	.4750	.0830	.1420	.1850	.0980	-.0760
165.000	1.3420			.3240	-.0340	-.1120	-.2020	-.1660	.3160	.5570	.0620		.0780		-.1850
180.000	1.3420	1.3360	.7300	.2660	-.0760	-.1560	-.2440	-.2040	.2900	.5620	.0270	-.2270	.1490	-.0580	-.2930
270.000	1.3420	1.0730													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0280	-.0330	-.0390
30.000	-.0680	-.0280	-.0020
60.000	-.0230	-.0290	-.0030
90.000			-.1940
120.000	.0340	.2730	-.0020
135.000	-.0190	.3230	.0170
150.000	-.0800	.3590	.0160
165.000		.3440	.0630
180.000	-.3770		

MACH (4) = 1.246 BETAT (2) = -6.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3640	1.1480	.4570	.0280	-.2550	-.3190	-.3870	-.3510	-.0090	.1020	.0010	-.2390	-.1850	-.0830	.0120
30.000	1.3640		.5300	.0910	-.2130	-.2780	-.3660	-.3250	-.0640	-.0880	-.2440	-.2530	-.0700	-.0860	-.0830
60.000	1.3640		.6410	.1870	-.1360	-.2080	-.3050	-.2420	.1290	-.1920	-.5720	-.1920	-.0270	-.0580	-.0940
90.000	1.3640	1.3640	.7540	.2880	-.0600	-.1440	-.2320	-.1420	.5430	-.3450	-.5560	-.3070	-.2870	-.1230	-.0740
120.000	1.3640		.8180	.3500	-.0090	-.0920	-.1860	-.1440	.4520	.2580	-.0650	.1460	.2170	.1000	-.1190
135.000	1.3640							-.1450		.3930		.1420		.1010	
150.000	1.3640		.8170	.3550	-.0160	-.0970	-.1860	-.1450	.3600	.4830	.0530	.0720	.2260	.0670	-.1230
165.000	1.3640			.3190	-.0360	-.1180	-.2060	-.1580	.3360	.5730	.0240		.2140		-.1850
180.000	1.3640	1.3590	.7430	.2770	-.0700	-.1480	-.2350	-.1920	.3030	.5710	.0240	-.1890	.1970	-.0410	-.2610
270.000	1.3640	1.1280													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT04)

MACH (4) = 1.248 BETAT (2) = -6.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0410	-.0370	-.0370
30.000	-.0830	-.0430	-.0090
60.000	-.0230	-.0250	-.0110
90.000			-.1280
120.000	-.0210	.2240	-.0300
135.000	-.0850	.2710	-.0190
150.000	-.1180	.2940	-.0210
165.000		.2320	.0010
180.000	-.3400		

MACH (4) = 1.244 BETAT (3) = -4.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3790	1.1560	.4680	.0330	-.2430	-.3080	-.3820	-.3420	.0280	.1350	.0050	-.2290	-.2010	-.0480	.0300
30.000	1.3790		.5180	.0810	-.2190	-.2820	-.3740	-.3250	-.0310	.0250	-.2460	-.2580	-.0740	-.0910	-.0810
60.000	1.3790		.6100	.1540	-.1630	-.2320	-.3250	-.2690	.1320	-.1690	-.5510	-.1680	-.0270	-.0360	-.0850
90.000	1.3790	1.3420	.7070	.2430	-.0970	-.1810	-.2650	-.2010	.5450	-.3510	-.4920	-.3330	-.1030	-.2720	-.0850
120.000	1.3790		.7740	.3090	-.0420	-.1260	-.2170	-.1870	.4130	.2910	-.0580	.0830	.2180	.0850	-.1440
135.000	1.3790							-.1710		.4080		.0910		.0650	
150.000	1.3790		.8020	.3320	-.0290	-.1140	-.2000	-.1660	.4070	.4920	.0100	.0370	.2200	.0360	-.1550
165.000	1.3790			.3180	-.0390	-.1210	-.2080	-.1680	.3440	.5790	-.0450		.2110		-.1870
180.000	1.3790	1.3750	.7810	.2920	-.0570	-.1410	-.2280	-.1730	.3490	.5780	-.0610	-.1370	.1940	-.0360	-.2270
270.000	1.3790	1.1810													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0290	-.0480	-.0550
30.000	-.0480	-.0420	-.0540
60.000	-.0210	-.0080	-.0060
90.000			-.0590
120.000	-.0450	.1840	-.0570
135.000	-.0920	.2100	-.0790
150.000	-.1500	.2220	-.0790
165.000		.1190	-.0800
180.000	-.2900		

AMES 11-707 IA9 OEA + S2 + T9 EXTERNAL TANK (RUNT04)

MACH (4) = 1.247 BETAT (4) = -2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3900	1.1840	.4740	.0350	-.2470	-.3050	-.3750	-.3300	.0170	.1210	.0370	-.2190	-.2100	-.0410	.0380
30.000	1.3900		.5050	.0670	-.2280	-.2930	-.3740	-.3290	-.0170	.0520	-.1880	-.2720	-.0870	-.0840	-.0340
60.000	1.3900		.5720	.1190	-.1890	-.2580	-.3440	-.3000	.1430	-.1710	-.5520	-.1880	-.0120	-.0520	-.0700
90.000	1.3900	1.3110	.6570	.1950	-.1340	-.2130	-.2950	-.2330	.5570	-.3450	-.4340	-.3760	-.1150	-.3480	-.1120
120.000	1.3900		.7290	.2660	-.0760	-.1600	-.2470	-.2220	.3840	.3230	-.0510	.0620	.1970	.0310	-.1850
135.000	1.3900							-.1950		.4140		.0840		.0310	
150.000	1.3900		.7740	.3070	-.0480	-.1320	-.2160	-.1860	.3770	.4990	-.0110	.0410	.1980	.0040	-.1720
165.000	1.3900			.3100	-.0460	-.1290	-.2170	-.1780	.3190	.5940	-.0710		.1970		-.1860
180.000	1.3900	1.3870	.7790	.2910	-.0550	-.1310	-.2260	-.1810	.3020	.6580	-.0740	-.0550	.2010	-.0310	-.1900
270.000	1.3900	1.2300													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0220	-.0350	-.0250
30.000	-.0230	-.0230	-.0420
60.000	-.0470	-.0010	-.0190
90.000			-.0630
120.000	-.0720	.1460	-.0620
135.000	-.1400	.1530	-.1300
150.000	-.1670	.1540	-.1500
165.000		.0700	-.1590
180.000	-.2130		

MACH (4) = 1.245 BETAT (5) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3910	1.1600	.4700	.0360	-.2460	-.3040	-.3760	-.3270	.0090	.1200	.0120	-.2200	-.2180	-.0520	.0330
30.000	1.3910		.4640	.0320	-.2530	-.3060	-.3820	-.3330	.0130	.0640	-.0580	-.2840	-.1380	-.0370	-.0270
60.000	1.3910		.4930	.0540	-.2340	-.3020	-.3750	-.3290	.1320	-.1250	-.5260	-.1840	-.0200	-.0460	-.0560
90.000	1.3910	1.2300	.5490	.1020	-.2020	-.2760	-.3530	-.1730	.5800	-.3450	-.3530	-.4090	-.2350	-.3530	-.1100
120.000	1.3910		.6240	.1760	-.1490	-.2270	-.3060	-.2620	.2640	.3500	-.0370	.0200	.1560	-.0190	-.2170
135.000	1.3910							-.2600		.3630		.0520		-.0400	
150.000	1.3910		.7100	.2580	-.0900	-.1720	-.2560	-.2360	.2500	.4000	-.0490	.0380	.1480	-.0830	-.2290
165.000	1.3910			.2800	-.0670	-.1510	-.2360	-.2060	.2900	.5250	-.1330		.1720		-.2240
180.000	1.3910	1.3890	.7710	.2930	-.0530	-.1340	-.2250	-.1890	.3050	.6170	-.1340	-.0470	.2030	-.0270	-.1870
270.000	1.3910	1.3090													

X/LT	.7449	.8526	.9290
PHI			

MACH (4) = 1.245 BETAT (5) = 2.079

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0230	-.0430	-.0290
30.000	-.0240	-.0260	-.0290
60.000	-.0410	-.0210	-.0320
90.000			-.0990
120.000	-.1050	.0580	-.1300
135.000	-.1740	.0540	-.1770
150.000	-.2000	.0280	-.1790
165.000		-.0650	-.2080
180.000	-.2280		

MACH (4) = 1.248 BETAT (6) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3780	1.1470	.4640	.0310	-.2450	-.3080	-.3810	-.3360	-.0110	.1170	-.0060	-.2280	-.2060	-.0770	.0170
30.000	1.3780		.4420	.0140	-.2610	-.3190	-.3890	-.3410	.0220	.0560	-.0050	-.2760	-.1850	-.0850	-.0240
60.000	1.3780		.4520	.0200	-.2540	-.3140	-.3870	-.3400	.0870	-.0890	-.4890	-.1280	-.0840	-.0890	-.0430
90.000	1.3780	1.1790	.4970	.0580	-.2320	-.3030	-.3680	-.1840	.4830	-.3330	-.3030	-.4580	-.2410	-.3840	-.1050
120.000	1.3780		.5660	.1280	-.1820	-.2570	-.3330	-.0480	.1640	.3290	.0370	-.0070	.1280	-.0390	-.2450
135.000	1.3780							-.2550		.3650		.0610		-.0720	
150.000	1.3780		.6700	.2230	-.1150	-.1950	-.2790	-.2400	.1770	.3830	-.1020	.0030	.1050	-.1040	-.2700
165.000	1.3780			.2600	-.0810	-.1660	-.2490	-.2100	.2420	.5350	-.1940		.1490		-.2700
180.000	1.3780	1.3780	.7640	.2880	-.0560	-.1390	-.2300	-.1860	.2880	.6200	-.1940	-.1620	.2040	-.0330	-.2320
270.000	1.3780	1.3380													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0320	-.0490	-.0810
30.000	-.0320	-.0340	-.0290
60.000	-.0330	-.0260	-.0630
90.000			-.1260
120.000	-.0960	-.0270	-.1460
135.000	-.0960	-.0470	-.2030
150.000	-.1760	-.0470	-.1790
165.000		-.1810	-.1890
180.000	-.2950		

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RUNT04)

MACH (4) = 1.245 BETAT (7) = 6.170

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3620	1.1300	.4560	.0300	-.2530	-.3150	-.3910	-.3510	-.0280	.0840	-.0320	-.2400	-.1800	-.0800	-.0020
30.000	1.3620		.4190	-.0050	-.2770	-.3300	-.4040	-.3560	.0100	.0390	-.0310	-.2300	-.1950	-.0750	-.0310
60.000	1.3620		.4170	-.0040	-.2750	-.3360	-.4060	-.2570	.0190	-.0800	-.3060	-.1230	-.1020	-.0770	-.0320
90.000	1.3620	1.1220	.4550	.0210	-.2620	110	-.3530	-.0170	.2740	-.3240	-.3230	-.4280	-.1720	-.3790	-.1170
120.000	1.3620		.5130	.0820	-.2190	-.2930	-.3660	.0040	.1280	.3090	.0240	-.0420	.1130	-.0590	-.2700
135.000	1.3620							-.2460		.3670		.0040		-.0990	
150.000	1.3620		.6230	.1830	-.1460	-.2260	-.3060	-.2520	.2450	.4040	-.1410	-.0360	.0720	-.1380	-.3270
165.000	1.3620			.2310	-.1050	-.1920	-.2720	-.2360	.2260	.4840	-.2340		.1400		-.3470
180.000	1.3620	1.3580	.7430	.2790	-.0690	-.1510	-.2430	-.2010	.2020	.5860	-.2320	-.2090	.2000	-.0450	-.2640
270.000	1.3620	1.3610													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0450	-.0510	-.0460
30.000	-.0460	-.0160	-.0340
60.000	-.0320	.0100	-.0650
90.000			-.1140
120.000	-.0610	-.0570	-.1150
135.000	-.0610	-.0560	-.1390
150.000	-.0780	-.0520	-.1780
165.000		-.2750	-.2390
180.000	-.3540		

MACH (4) = 1.245 BETAT (8) = 8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3410	1.1080	.4390	.0150	-.2570	-.3200	-.4020	-.3620	.0020	.0510	-.0610	-.2580	-.1610	-.0920	-.0100
30.000	1.3410		.3860	-.0200	-.2880	-.3410	-.4150	-.3660	.0030	.0390	-.0800	-.2380	-.2180	-.0780	-.0150
60.000	1.3410		.3770	-.0340	-.2890	-.3500	-.4130	-.1110	-.0530	-.0430	-.2300	-.1270	-.1270	-.0880	-.0110
90.000	1.3410	1.0850	.4050	-.0160	-.2810	-.3550	-.4110	-.0580	.5110	-.3130	-.3140	-.4360	-.1660	-.3810	-.0990
120.000	1.3410		.4630	.0430	-.2450	-.3240	-.3810	-.2660	.2490	.3150	.0150	-.1370	.1000	-.0640	-.2890
135.000	1.3410							-.2900		.3900		-.0590		-.1030	
150.000	1.3410		.5860	.1490	-.1690	-.2540	-.3300	-.2940	.1400	.3620	-.1840	-.1240	.0480	-.1670	-.3730
165.000	1.3410			.2090	-.1220	-.2090	-.2910	-.2570	.1990	.4310	-.2710		.1040		-.4110
180.000	1.3410	1.3410	.7280	.2720	-.0730	-.1610	-.2460	-.2050	.2090	.5600	-.2720	-.2590	.1490	-.0900	-.2880
270.000	1.3410	1.3790													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-707 IA9 @2A + S3 + T9 EXTERNAL TANK (RBWT04)

MACH (4) = 1.245 BETAT (3) = 8.210

SECTION (1):EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0270	-.0430	-.0430
30.000	-.0170	-.0320	-.0480
60.000	-.0090	-.0160	-.0360
90.000			-.1270
120.000	-.0320	-.0410	-.2010
135.000	-.1200	-.0330	-.2230
150.000	-.1870	-.0960	-.2410
165.000		-.3900	-.2700
180.000	-.3500		

AMES 11-FOOT IAS CBA + SJ + T9 EXTERNAL TANK (REVISED) 27 APR 75

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.9300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = -4.000 DBETA = .000
ALPHA = .000 ELEVON = .000
ALPHA = .000

MACH (1) = .800 BETAT (1) = .000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L=	.0000	.0009	.0492	.1090	.1744	.1979	.2121	.2338	.2874	.3412	.3990	.4489	.5027	.5585	.6372
PHI															
.000	1.0790	.8660	.1580	-.2695	-.3760	-.3519	-.2729	-.1327	-.0825	-.0790	-.0780	-.0680	-.0510	-.0480	-.0840
30.000	1.0790		.1870	-.2720	-.3750	-.3410	-.2520	-.1290	-.1010	-.0720	-.0700	-.0740	-.0530	-.0530	-.0670
60.000	1.0790		.2010	-.2220	-.3230	-.2780	-.1790	-.0780	-.1120	-.5860	-.1450	-.0910	-.0770	-.0740	-.0490
90.000	1.0790	.9310	.2620	-.1630	-.2660	-.2120	-.0480	.0240	.1740	-1.1140	-.5490	-.2990	-.2320	-.1740	-.1170
120.000	1.0790		.5220	-.1040	-.2410	-.1930	-.0770	.0590	.1230	-.0170	-.0690	-.0780	-.0720	-.0460	-.0580
135.000	1.0790							.0240		-.0110		-.0790		-.0520	
150.000	1.0790		.5770	-.0620	-.2270	-.1970	-.0980	-.0120	-.0090	.0150	-.0340	-.0790	-.0680	-.0720	-.0520
165.000	1.0790			-.0930	-.2270	-.2070	-.0970	.0240	.0180	.0420	-.0780		-.0690		-.0520
180.000	1.0790	1.0540	.3260	-.1530	-.2210	-.1950	-.1120	.0240	.0310	.0190	-.0780	-.0840	-.1790	-.0690	-.0720
270.000	1.0790	.9500													

X/L=	.9449	.8528	.9290
PHI			
.000	-.0580	-.0870	-.3140
30.000	-.0580	-.0990	-.3240
60.000	-.0680	-.1330	-.3390
90.000			-.4030
120.000	.0290	-.1330	-.4210
134.000	.0130	-.1810	-.4440
150.000	.0280	-.1910	-.3910
180.000		-.2640	-.2930
180.000	.0310		

MACH (1) = .900 BETAT (2) = 6.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L=	.0000	.0009	.0492	.1090	.1744	.1903	.2121	.2338	.2874	.3412	.3990	.4489	.5027	.5585	.6372
PHI															
.000	1.0580	.8410	.1380	-.2790	-.3890	-.3620	-.2490	-.1310	-.1740	-.1120	-.0980	-.0850	-.0590	-.0830	-.0490
30.000	1.0580		.1380	-.3010	-.3770	-.3590	-.2260	-.1190	-.0840	-.1220	-.0950	-.0810	-.0590	-.0540	-.0580
60.000	1.0580		.1130	-.2770	-.3390	-.2810	-.1590	-.0550	-.0790	-.3940	-.1370	-.0960	-.0690	-.0890	-.0810
90.000	1.0580	.8190	.1680	-.2470	-.2980	-.2410	-.0710	-.0070	.1990	-1.2130	-.5990	-.2980	-.2550	-.1940	-.1130
120.000	1.0580		.2010	-.1920	-.2890	-.2410	-.1140	.0340	.1250	-.1140	-.1190	-.1010	-.0990	-.0690	-.0490
135.000	1.0580							-.0100		-.0490		-.1260		-.0910	
150.000	1.0580		.2990	-.1170	-.2690	-.2420	-.1330	-.0130	-.0420	-.0290	-.1590	-.1430	-.1490	-.1110	-.0890

AMES 11-FOOT TAP TEST + 59 + 79 EXTERNAL TANK (RUN 7051)

MACH (1) = .994 BETAT (2) = 8.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1903	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5583	.6372
PHI															
[illegible]				-.0870	-.2480	-.2990	-.1580	-.0870	-.0790	-.0190	-.1520		-.1550		-.0820
[illegible]				-.0560	-.2260	-.2190	-.1340	-.0410	.1150	.0950	-.1360	-.1270	-.1440	-.1180	-.0790
[illegible]															

X/LT	.7449	.8526	.9290
PHI			
.000	-.0990	-.1180	-.2190
30.000	-.0990	-.1180	-.2190
60.000	-.0990	-.1180	-.2190
90.000	-.0990	-.1180	-.2190
120.000	-.0990	-.1180	-.2190
150.000	-.0990	-.1180	-.2190
180.000	-.0990	-.1180	-.2190
210.000	-.0990	-.1180	-.2190
240.000	-.0990	-.1180	-.2190
270.000	-.0990	-.1180	-.2190

MACH (1) = .994 BETAT (3) = 8.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1903	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5583	.6372
PHI															
.000	1.0370	.8170	.1270	-.2680	-.3960	-.3770	-.2680	-.1590	-.1270	-.1190	-.1120	-.0970	-.0890	-.0780	-.0820
30.000	1.0370		.0780	-.3290	-.3910	-.3480	-.2260	-.1100	-.0770	-.1160	-.1070	-.0970	-.0670	-.0580	-.0580
60.000	1.0370		.0650	-.3190	-.3420	-.2850	-.1480	-.0330	-.0560	-.2960	-.1110	-.0820	-.0680	-.0570	-.0680
90.000	1.0370	.7630	.0890	-.2960	-.3060	-.2430	-.0670	.0870	.2060	-1.1570	-.3580	-.2850	-.2210	-.1780	-.1180
120.000	1.0370		.1360	-.2390	-.3100	-.2610	-.1110	.0200	.1150	-.1290	-.1350	-.1240	-.1100	-.0830	-.0540
135.000	1.0370							-.0310		-.0720		-.1540		-.1170	
150.000	1.0370		.2460	-.1680	-.2950	-.2690	-.1390	-.0490	.0370	-.0700	-.1760	-.1860	-.1830	-.1480	-.0930
165.000	1.0370			-.1270	-.2740	-.2600	-.1480	-.0460	.0800	-.0280	-.1950		-.2090		-.1380
180.000	1.0370	1.0100	.3520	-.0780	-.2480	-.2300	-.1280	-.0280	.1000	.0720	-.1920	-.1750	-.1990	-.1730	-.1230
270.000	1.0370	1.0580													

X/LT	.7449	.8526	.9290
PHI			
.000	-.1000	-.1420	-.4120
30.000	-.0990	-.1280	-.4000
60.000	-.0890	-.1260	-.4010
90.000			-.4630
120.000	-.0160	-.1630	-.3910
135.000	-.0170	-.1590	-.3020
150.000	-.0490	-.2140	-.2520

AMES 11-707 IA9 OEA + 33 + T9 EXTERNAL TANK (RBMTD9)

MACH (1) = .599 BETAT (3) = 8.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9295
PHI			
165.000		-.3060	-.2170
180.000	-.0520		

MACH (1) = .599 BETAT (4) = 8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0090	.7810	.0960	-.3060	-.4210	-.3980	-.2760	-.1790	-.1320	-.1400	-.1220	-.1170	-.1010	-.0940	-.0780
30.000	1.0090		.0340	-.3550	-.4000	-.3550	-.2240	-.1070	-.0700	-.1150	-.1200	-.0830	-.0630	-.0620	-.0740
60.000	1.0090		.0140	-.3460	-.3440	-.2760	-.1370	-.0230	-.0400	-.2800	-.1170	-.0780	-.0560	-.0510	-.0480
90.000	1.0090	.6970	.0420	-.3290	-.3170	-.2370	-.0600	.0870	.2170	-1.1090	-.3840	-.2800	-.2080	-.1660	-.1050
120.000	1.0090		.0780	-.2870	-.3300	-.2690	-.1210	.0140	.1220	-.1250	-.1660	-.1230	-.1130	-.0870	-.0830
135.000	1.0090							-.0460		-.0840		-.1620		-.1140	
150.000	1.0090		.1870	-.2110	-.3290	-.2940	-.1810	-.0700	.0070	-.1060	-.2160	-.2120	-.2110	-.1700	-.1110
165.000	1.0090			-.1560	-.3010	-.2760	-.1770	-.0690	.0290	-.0770	-.2200		-.2690		-.1890
180.000	1.0090	.9800	.3400	-.0950	-.2560	-.2410	-.1460	-.0490	.0710	.0410	-.2080	-.2240	-.2480	-.2340	-.1910
270.000	1.0090	1.0660													

X/LT	.7449	.8526	.9290
PHI			
.000	-.1170	-.1590	-.4150
30.000	-.1130	-.1340	-.3960
60.000	-.0740	-.1290	-.4110
90.000			-.5590
120.000	-.0280	-.1800	-.4040
135.000	-.0270	-.1470	-.3060
150.000	-.0480	-.2560	-.3050
165.000		-.3700	-.2960
180.000	-.0910		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

MACH (2) = .903 BETAT (1) = -6.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1490	.9360	.2440	-.2480	-.5870	-.6340	-.1540	-.0330	-.0490	-.1950	-.2320	-.1070	-.0700	-.0810	-.0380
30.000	1.1490		.3540	-.1790	-.5010	-.5420	-.2320	-.0850	-.1040	-.3400	-.2310	-.1200	-.0810	-.0890	-.0790
60.000	1.1490		.4930	-.0150	-.3560	-.3220	-.1230	.0200	-.0190	-.5470	-.5280	-.1180	-.0310	-.0310	-.0190
90.000	1.1490	1.1970	.6020	.0890	-.2320	-.2060	.0490	.2220	.3490	-.9830	-.5250	-.4360	-.1710	-.0750	-.0010
120.000	1.1490		.6290	.1300	-.2170	-.1840	.0210	.1730	.2660	-.1780	.0050	-.0090	-.0380	-.0870	.0310
135.000	1.1490							.1150		.0160		.0060		-.1010	
150.000	1.1490		.5800	.0770	-.2720	-.2800	-.0670	.0740	.1970	.1520	-.0280	-.0160	-.1040	-.1640	.0200
165.000	1.1490			.0220	-.3280	-.3640	-.0960	.0460	.2040	.2510	-.1490		-.2180		-.0340
180.000	1.1490	1.1070	.4560	-.0500	-.3930	-.4240	-.1180	.0350	.2100	.2500	-.3170	-.2150	-.3130	-.4100	-.1380
270.000	1.1490	.8360													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0900	-.1120	-.3240
30.000	.0190	-.1050	-.2680
60.000	-.0160	-.0830	-.2290
90.000			-.3240
120.000	.1880	.0570	-.2030
135.000	.1880	.0990	-.2050
150.000	.1650	.1320	-.2260
165.000		.0700	-.2150
180.000	.0070		

MACH (2) = .901 BETAT (2) = -6.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1770	.9880	.2650	-.2330	-.5830	-.6440	-.1320	-.0300	-.0250	-.1700	-.2930	-.0820	-.0470	-.0990	-.0190
30.000	1.1770		.3430	-.1830	-.5200	-.5550	-.1810	-.0550	-.0670	-.2950	-.2960	-.1130	-.0610	-.0490	-.0630
60.000	1.1770		.4550	-.0630	-.4130	-.3510	-.1110	.0320	.0010	-.5220	-.5310	-.1430	-.0350	-.0350	-.0190
90.000	1.1770	1.1780	.5470	.0300	-.3140	-.2430	.0380	.2190	.3520	-.9820	-.5300	-.4470	-.1800	-.0770	-.0100
120.000	1.1770		.5820	.0800	-.2740	-.2180	.0100	.1670	.2720	-.1660	-.0220	-.0330	-.0690	-.0950	.0180
135.000	1.1770							.1190		.0170		-.0190		-.1460	
150.000	1.1770		.5570	.0550	-.2990	-.2980	-.0600	.0660	.2090	.1400	-.0520	-.0310	-.1170	-.2160	.0180
165.000	1.1770			.0140	-.3390	-.3630	-.0790	.0670	.2210	.2440	-.1910		-.1960		-.0190
180.000	1.1770	1.1380	.4770	-.0400	-.3850	-.3970	-.0920	.0580	.2300	.2440	-.2400	-.1500	-.2800	-.4100	-.0720
270.000	1.1770	.9320													

X/LT	.7449	.8526	.9290
PHI			

MACH (2) = .901 BETAT (2) = -6.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0700	-.1010	-.3110
30.000	-.0710	-.0960	-.2820
60.000	-.0160	-.0830	-.2420
90.000			-.3090
120.000	.1490	.0170	-.2460
135.000	.1490	.0480	-.2360
150.000	.1510	.0660	-.2500
165.000		-.0190	-.2510
180.000	.0470		

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1940	.9970	.2740	-.2290	-.5710	-.6560	-.1150	-.0130	-.0050	-.1550	-.4000	-.0720	-.0400	-.0290	-.0070
30.000	1.1940		.3280	-.2040	-.5300	-.6050	-.1370	-.0250	-.0360	-.2600	-.3800	-.1040	-.0300	-.0420	-.0320
60.000	1.1940		.4170	-.1000	-.4530	-.3960	-.0890	.0490	.0240	-.5000	-.5330	-.1600	-.0340	-.0300	-.0200
90.000	1.1940	1.1550	.4920	-.0220	-.3890	-.2470	.0380	.2210	.3590	-.9810	-.5270	-.4130	-.1780	-.0780	-.0080
120.000	1.1940		.5360	.0310	-.3470	-.2250	.0070	.1670	.2810	-.1450	-.0350	-.0930	-.1010	-.0990	.0050
135.000	1.1940							.1240		.0260		-.0420		-.1540	
150.000	1.1940		.5390	.0340	-.3430	-.3010	-.0490	.0980	.2230	.1370	-.0910	-.0440	-.1380	-.2000	.0250
165.000	1.1940			.0070	-.3660	-.3320	-.0620	.0820	.2360	.2380	-.1770		-.1900		.0080
180.000	1.1940	1.1540	.4890	-.0250	-.4070	-.3710	-.0770	.0750	.2430	.2400	-.2720	-.1070	-.2300	-.1930	-.0210
270.000	1.1940	.9870													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0430	-.0810	-.2910
30.000	-.0450	-.0810	-.2790
60.000	-.0230	-.0810	-.2570
90.000			-.3070
120.000	.1310	-.0130	-.2710
135.000	.1300	-.0020	-.2580
150.000	.1400	.0000	-.2700
165.000		-.1240	-.2490
180.000	.0880		

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2030	1.0050	.2820	-.2200	-.5650	-.6310	-.1120	-.0040	.0040	-.1470	-.4130	-.0840	-.0340	-.0210	.0020
30.000	1.2030		.3130	-.2140	-.5530	-.6050	-.1070	.0000	-.0070	-.2260	-.4120	-.0850	-.0390	-.0320	-.0470
60.000	1.2030		.3730	-.1420	-.4920	-.4810	-.0630	.0660	.0480	-.4760	-.5310	-.1560	-.0320	-.0300	-.0200
90.000	1.2030	1.1220	.4370	-.0760	-.4250	-.2430	.0420	.2230	.3690	-.9850	-.5200	-.4070	-.1700	-.0710	-.0090
120.000	1.2030		.4830	-.0190	-.3860	-.2450	.0050	.1670	.2880	-.1270	-.0600	-.0750	-.1270	-.1060	.0020
135.000	1.2030							.1240		.0330		-.0660		-.1370	
150.000	1.2030		.5110	.0080	-.3690	-.3230	-.0450	.1010	.2310	.1320	-.1030	-.0600	-.1750	-.1650	.0220
165.000	1.2030			-.0030	-.3810	-.3560	-.0550	.0890	.2430	.2300	-.2050		-.2030		.0210
180.000	1.2030	1.1840	.5010	-.0210	-.3790	-.3970	-.0670	.0840	.2510	.2790	-.4960	-.0810	-.2190	-.1990	.0070
270.000	1.2030	1.0360													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0380	-.0740	-.2880
30.000	-.0370	-.0740	-.2850
60.000	-.0310	-.0900	-.2820
90.000			-.3220
120.000	.1090	-.0560	-.2840
135.000	.1100	-.0580	-.2840
150.000	.1210	-.0780	-.2850
165.000		-.2820	-.2460
180.000	.1070		

MACH (2) = .903 BETAT (5) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2030	1.0040	.2820	-.2220	-.5690	-.6430	-.1050	-.0090	.0000	-.1490	-.3590	-.0650	-.0320	-.0180	.0030
30.000	1.2030		.2890	-.2480	-.5860	-.6410	-.0860	.0190	.0270	-.1840	-.4140	-.0690	-.0270	-.0170	-.0270
60.000	1.2030		.2870	-.2260	-.5620	-.5230	-.0320	.0880	.0870	-.4320	-.5020	-.1340	-.0280	-.0230	-.0110
90.000	1.2030	1.0390	.3230	-.1840	-.5310	-.2000	.0520	.2260	.3850	-.9950	-.4960	-.3580	-.1530	-.0560	-.0120
120.000	1.2030		.3740	-.1240	-.4850	-.2700	.0000	.1610	.2970	-.1020	-.1190	-.1010	-.1810	-.0830	.0000
135.000	1.2030							.1140		.0340		-.1090		-.1010	
150.000	1.2030		.4460	-.0570	-.4400	-.3420	-.0540	.0920	.2310	.1040	-.3080	-.1080	-.2530	-.1350	.0020
165.000	1.2030			-.0390	-.4040	-.3280	-.0600	.0840	.2420	.1990	-.2590		-.2480		.0020
180.000	1.2030	1.1690	.4980	-.0230	-.3850	-.3100	-.0680	.0850	.2520	.2730	-.2370	-.0840	-.2160	-.1520	.0020
270.000	1.2030	1.1230													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RUN105)

MACH (2) = .903 BETAT (5) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0380	-.0780	-.2980
30.000	-.0390	-.0750	-.2970
60.000	-.0250	-.0960	-.2990
90.000			-.3540
120.000	.0770	-.1140	-.3310
135.000	.0760	-.1460	-.3200
150.000	.0760	-.2300	-.2750
165.000		-.4890	-.2010
180.000	.1020		

MACH (2) = .900 BETAT (6) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1930	.9870	.2690	-.2300	-.5810	-.6420	-.1140	-.0180	-.0110	-.1610	-.3220	-.0750	-.0450	-.0300	-.0150
30.000	1.1930		.2390	-.2690	-.6080	-.6490	-.0780	.0260	.0370	-.1690	-.3830	-.0650	-.0320	-.0180	-.0310
60.000	1.1930		.2360	-.2620	-.5930	-.2990	-.0180	.0970	.0980	-.4120	-.5020	-.1040	-.0290	-.0230	-.0140
90.000	1.1930	.9800	.2690	-.2400	-.5700	-.2050	.0530	.2160	.3970	-.9950	-.5000	-.3980	-.1560	-.0570	-.0140
120.000	1.1930		.3180	-.1790	-.5240	-.3080	.0010	.1520	.2980	-.0910	-.1970	-.1150	-.2000	-.0910	.0000
135.000	1.1930							.1060		.0310		-.1300		-.1100	
150.000	1.1930		.4100	-.0950	-.4690	-.4120	-.0630	.0780	.2190	.0830	-.6290	-.1390	-.2880	-.1450	-.0140
165.000	1.1930			-.0595	-.4280	-.4200	-.0740	.0670	.2270	.1730	-.5690		-.2820		-.0340
180.000	1.1930	1.1580	.4960	-.0270	-.3940	-.3610	-.0790	.0700	.2400	.2640	-.4130	-.1130	-.2390	-.1840	-.0280
270.000	1.1930	1.1570													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0930	-.0800	-.3040
30.000	-.0920	-.0800	-.3180
60.000	-.0920	-.1000	-.3180
90.000			-.3630
120.000	.0840	-.1220	-.3330
135.000	.0830	-.1430	-.3100
150.000	.0810	-.1930	-.2570
165.000		-.3040	-.2010
180.000	.0780		

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1730	.9670	.2610	-.2420	-.5890	-.6500	-.1340	-.0410	-.0310	-.1790	-.2270	-.0920	-.0540	-.0420	-.0300
30.000	1.1730		.2050	-.2980	-.6300	-.6090	-.0800	.0200	.0420	-.1640	-.3460	-.0680	-.0260	-.0200	-.0300
60.000	1.1730		.1890	-.3110	-.6240	-.2300	-.0150	.0980	.1150	-.3830	-.4820	-.0730	-.0210	-.0170	-.0080
90.000	1.1730	.9140	.2150	-.2870	-.6070	-.1620	.0490	.2130	.4060	-.9660	-.6110	-.3060	-.1430	-.0460	-.0090
120.000	1.1730		.2380	-.2300	-.5620	-.2300	-.0030	.1510	.2960	-.0850	-.3400	-.1150	-.2120	-.0890	-.0070
135.000	1.1730							.1000		.0260		-.1420		-.0970	
150.000	1.1730		.3600	-.1380	-.4830	-.4880	-.0780	.0630	.2060	.0570	-.6780	-.1670	-.3220	-.1480	-.0300
165.000	1.1730			-.0940	-.4460	-.4510	-.0950	.0500	.2100	.1430	-.6590		-.3210		-.0800
180.000	1.1730	1.1360	.4730	-.0410	-.3820	-.3990	-.0990	.0520	.2220	.2530	-.4760	-.1570	-.2670	-.3380	-.0820
270.000	1.1730	1.1830													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0680	-.0940	-.3120
30.000	-.0360	-.0830	-.3310
60.000	-.0290	-.1000	-.3030
90.000			-.3650
120.000	.0570	-.1360	-.3290
135.000	.0360	-.1320	-.2730
150.000	.0470	-.1970	-.2250
165.000		-.3280	-.2380
180.000	.0470		

MACH (2) = .899 BETAT (8) = 8.230

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1460	.9390	.2340	-.2590	-.5940	-.6510	-.1700	-.0640	-.0590	-.2050	-.2180	-.1170	-.0730	-.0870	-.0520
30.000	1.1460		.1650	-.3230	-.6520	-.6040	-.0780	.0260	.0420	-.1610	-.3180	-.0750	-.0410	-.0330	-.0490
60.000	1.1460		.1440	-.3420	-.6500	-.2030	-.0190	.0970	.1260	-.3670	-.4560	-.0580	-.0280	-.0150	-.0110
90.000	1.1460	.8490	.1640	-.3300	-.6360	-.1590	.0470	.2010	.4150	-.9380	-.6550	-.2790	-.1400	-.0380	.0000
120.000	1.1460		.2040	-.2760	-.6010	-.2640	-.0020	.1460	.3010	-.0770	-.4410	-.1260	-.2260	-.1040	-.0190
135.000	1.1460							.0850		.0180		-.1610		-.1210	
150.000	1.1460		.3150	-.1790	-.5220	-.5340	-.0900	.0450	.1880	.0280	-.7080	-.2080	-.3610	-.1750	-.0390
165.000	1.1460			-.1170	-.4670	-.4860	-.1180	.0250	.1890	.1100	-.5990		-.3740		-.1330
180.000	1.1460	1.1100	.4510	-.0350	-.3950	-.4220	-.1280	.0260	.2010	.2340	-.5960	-.2200	-.3200	-.4220	-.1510
270.000	1.1460	1.1980													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTOS)

MACH (2) = .899 BETAT (8) = 8.230

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0620	-.1080	-.3180
30.000	-.0510	-.0840	-.3320
60.000	-.0330	-.1030	-.3040
90.000			-.3580
120.000	.0430	-.1420	-.3220
135.000	.0450	-.1030	-.2610
150.000	.0520	-.2230	-.2580
165.000		-.3230	-.2500
180.000	-.0040		

MACH (3) = 1.100 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2770	1.1090	.4390	-.0060	-.3290	-.4010	-.4870	-.2880	.0370	.0350	-.1510	-.3280	-.1070	-.0580	-.0280
30.000	1.2770		.5350	.0680	-.2680	-.3390	-.4400	-.3530	.0510	-.1020	-.3710	-.1390	-.0840	-.0940	-.1080
60.000	1.2770		.6370	.1840	-.1740	-.2580	-.3590	.0250	.1480	-.2260	-.5060	-.1050	-.0010	-.0290	-.0800
90.000	1.2770	1.3170	.7540	.2720	-.1060	-.1930	-.2580	.3210	.5090	-.5330	-.4000	-.4310	-.1820	-.1790	-.1100
120.000	1.2770		.7780	.3020	-.0790	-.1650	-.2690	.1230	.4300	.0810	-.0860	.1830	.1190	.0170	-.1920
135.000	1.2770							-.0920		.2310		.1650		.0060	
150.000	1.2770		.7350	.2610	-.1190	-.2010	-.3010	-.2380	.3560	.3540	-.0630	.1410	.1000	-.0710	-.2130
165.000	1.2770			.2130	-.1610	-.2350	-.3320	-.2890	.3600	.4510	-.0910		.0220		-.3020
180.000	1.2770	1.2330	.6260	.1550	-.1980	-.2780	-.3740	-.3270	.3660	.4510	-.0930	.0380	-.0650	-.2350	-.4390
270.000	1.2770	1.0130													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0870	-.0320	-.1080
30.000	-.0880	-.0980	-.0920
60.000	-.0410	.0150	-.0380
90.000			-.1190
120.000	.1830	.2240	.0290
135.000	.1830	.2660	.0510
150.000	.2060	.3120	.0370
165.000		.2760	.0540
180.000	.0220		

MACH (3) = 1.097 BETAT (2) = -6.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2960	1.1230	.4520	-.0030	-.3250	-.3960	-.4790	-.2290	.0590	.0610	-.1290	-.3460	-.0910	-.0130	-.0160
30.000	1.2960		.5230	.0610	-.2810	-.3530	-.4470	-.3730	.0820	-.0410	-.2910	-.1390	-.0880	-.0390	-.0730
60.000	1.2960		.6200	.1450	-.2060	-.2900	-.3870	-.0220	.1670	-.2090	-.5000	-.0970	-.0080	-.0320	-.0580
90.000	1.2960	1.2970	.7030	.2230	-.1480	-.2360	-.3160	.1460	.5080	-.5390	-.3740	-.4380	-.2890	-.1790	-.1020
120.000	1.2950		.7360	.2600	-.1150	-.2050	-.3010	.0330	.4510	.1040	-.1870	.1690	.0860	-.0140	-.2160
135.000	1.2960							-.2020		.2530		.1850		-.0220	
150.000	1.2960		.7210	.2370	-.1400	-.2250	-.3170	-.2750	.3820	.3610	-.1830	.1840	.0730	-.0850	-.2310
165.000	1.2960			.2040	-.1660	-.2470	-.3380	-.2960	.3880	.4520	-.1050		.0190		-.2880
180.000	1.2960	1.2570	.6370	.1620	-.1940	-.2800	-.3670	-.3170	.3860	.4680	-.1080	.1570	-.0330	-.1880	-.3910
270.000	1.2960	1.0730													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0780	-.0160	-.0910
30.000	-.0760	-.0160	-.1090
60.000	-.0460	-.0060	-.0640
90.000			-.1230
120.000	.1560	.1830	-.0830
135.000	.1780	.2160	-.0[illegible]30
150.000	.2020	.2440	-.0810
165.000		.1410	-.0890
180.000	.1010		

MACH (3) = 1.101 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3150	1.1350	.4590	.0030	-.3180	-.3880	-.4730	-.2360	.0690	.1060	-.1030	-.3390	-.0830	.0290	.0120
30.000	1.3150		.5300	.0500	-.2960	-.3600	-.4550	-.3840	.0900	.0120	-.2750	-.1560	-.0860	-.0140	-.0810
60.000	1.3150		.5830	.1080	-.2360	-.3130	-.4100	-.0930	.1950	-.1870	-.4910	-.0800	-.0080	-.0270	-.0480
90.000	1.3150	1.2730	.6540	.1740	-.1850	-.2680	-.3640	.1260	.5150	-.5380	-.3770	-.4400	-.2810	-.1830	-.1000
120.000	1.3150		.6910	.2170	-.1530	-.2350	-.3330	.0820	.4680	.1360	-.1960	.1640	.0710	-.0390	-.2380
135.000	1.3150							-.1730		.2760		.1830		-.0470	
150.000	1.3150		.6950	.2170	-.1580	-.2360	-.3310	-.2870	.4020	.3680	-.1720	.2000	.0640	-.0940	-.2370
165.000	1.3150			.1960	-.1680	-.2500	-.3410	-.2950	.4080	.4570	-.2020		.0340		-.2880
180.000	1.3150	1.2780	.6520	.1700	-.1890	-.2680	-.3600	-.2920	.3990	.4870	-.2020	.1770	.0120	-.1810	-.3320
270.000	1.3150	1.1230													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-7D7 1A9 CEA + S3 + T9 EXTERNAL TANK (RDNTD9)

MACH (3) = 1.101 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0750	-.0060	-.0770
30.000	-.0770	-.0120	-.0900
60.000	-.0500	-.0230	-.0910
90.000			-.1380
120.000	.1490	.1340	-.1380
135.000	.1660	.1550	-.1390
150.000	.1860	.1330	-.1230
165.000		-.0210	-.1220
180.000	.1400		

MACH (3) = 1.099 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6572
PHI															
.000	1.3240	1.1420	.4650	.0020	-.3210	-.3870	-.4710	-.2730	.0810	.1050	-.0820	-.3350	-.0350	.0430	.0150
30.000	1.3240		.4960	.0180	-.3090	-.3720	-.4620	-.3890	.0850	.0550	-.2270	-.1700	-.0380	.0120	-.0990
60.000	1.3240		.5470	.0760	-.2650	-.3410	-.4310	-.0820	.2260	-.1670	-.4720	-.0550	-.0130	-.0300	-.0960
90.000	1.3240	1.2480	.6070	.1280	-.2240	-.3060	-.4000	.0850	.3250	-.5370	-.3640	-.4360	-.2470	-.2010	-.1100
120.000	1.3240		.6470	.1760	-.1900	-.2680	-.3630	.0910	.4540	.1610	-.1780	.1520	.0520	-.0750	-.2640
135.000	1.3240							-.0580		.2860		.1700		-.0820	
150.000	1.3240		.6700	.1960	-.1760	-.2530	-.3490	-.2770	.3910	.3690	-.1800	.1920	.0500	-.1150	-.2840
165.000	1.3240			.1860	-.1750	-.2550	-.3500	-.2950	.3770	.4580	-.2080		.0380		-.2900
180.000	1.3240	1.2850	.6630	.1710	-.1860	-.2600	-.3610	-.2640	.3690	.4940	-.2150	.1820	.0330	-.1490	-.3180
270.000	1.3240	1.1700													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0830	-.0050	-.0660
30.000	-.0890	-.0120	-.0870
60.000	-.0530	-.0420	-.1270
90.000			-.1560
120.000	.1380	.0780	-.1570
135.000	.1380	.0850	-.1930
150.000	.1650	.0710	-.1700
165.000		-.0920	-.1620
180.000	.1560		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTOS)

MACH (3) = 1.101 BETAT (5) = 2.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1058	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3280	1.1410	.4660	.0010	-.3150	-.3860	-.4690	-.3050	.0835	.1040	-.0690	-.3290	-.0410	.0400	.0170
30.000	1.3280		.4540	-.0140	-.3300	-.3960	-.4790	-.0930	.0460	.0820	-.1760	-.2440	-.0400	.0360	-.0650
60.000	1.3280		.4710	.0020	-.3160	-.3880	-.4710	-.0580	.1830	-.1090	-.3560	-.0470	-.0510	-.0260	-.0630
90.000	1.3280	1.1700	.5080	.0340	-.2950	-.3740	-.2410	-.0030	.5680	-.5260	-.5090	-.3060	-.4380	-.2120	-.1240
120.000	1.3280		.5510	.0880	-.2570	-.3550	-.2000	.0610	.2790	.2220	-.0740	.0900	.0130	-.1380	-.2970
135.000	1.3280							.0730		.3010		.0870		-.1660	
150.000	1.3280		.6150	.1460	-.2160	-.2970	-.3830	.0510	.2810	.3470	-.2070	.1250	-.0030	-.1940	-.5230
165.000	1.3280			.1600	-.1990	-.2830	-.3700	-.0810	.3340	.4320	-.3120		.0100		-.3390
180.000	1.3280	1.2890	.6630	.1730	-.1860	-.2670	-.3630	-.2590	.3650	.5020	-.3110	.1870	.0350	-.1530	-.3140
270.000	1.3280	1.2490													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0920	.0010	-.0840
30.000	-.0660	.0040	-.0440
60.000	-.0380	-.0190	-.1160
90.000			-.1790
120.000	.0980	.0060	-.1800
135.000	.1170	-.0090	-.1920
150.000	.1310	-.0800	-.1980
165.000		-.2140	-.2220
180.000	.1540		

MACH (3) = 1.102 BETAT (6) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3160	1.1280	.4550	-.0020	-.3250	-.3910	-.4730	-.2610	.0720	.0970	-.1030	-.3390	-.0640	.0190	.0080
30.000	1.3160		.4280	-.0330	-.3440	-.4080	-.4860	-.0610	.0340	.0460	-.1420	-.2560	-.0710	.0220	-.0800
60.000	1.3160		.4260	-.0320	-.3420	-.4050	-.3850	-.0600	.1030	-.0800	-.5260	-.0730	-.0730	-.0180	-.0800
90.000	1.3160	1.1200	.4550	-.0120	-.3260	-.3990	-.0740	-.0300	.5370	-.5170	-.5150	-.2190	-.4740	-.2230	-.1460
120.000	1.3160		.5000	.0420	-.2920	-.3630	.0040	.0920	.2190	.2100	-.1110	.0560	-.0090	-.1730	-.3260
135.000	1.3160							.0340		.3020		.0600		-.2090	
150.000	1.3160		.5790	.1140	-.2360	-.3190	-.4000	.0110	.2830	.3220	-.2500	.1000	-.0370	-.2340	-.3680
165.000	1.3160			.1450	-.2120	-.2900	-.3800	-.0930	.3490	.4040	-.3360		-.0280		-.3880
180.000	1.3160	1.2810	.6570	.1680	-.1900	-.2670	-.3630	-.3050	.3860	.4860	-.3430	.1770	.0110	-.1710	-.3430
270.000	1.3160	1.2800													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNTD3)

MACH (3) = 1.102 BETAT (6) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0800	-.0100	-.0860
30.000	-.0590	-.0010	-.0720
60.000	-.0220	-.0170	-.0900
90.000			-.2000
120.000	.1050	-.0330	-.2020
135.000	.1090	-.0420	-.2010
150.000	.1110	-.0800	-.2000
165.000		-.2890	-.2170
180.000	.1350		

MACH (3) = 1.100 BETAT (7) = 6.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2960	1.1120	.4470	-.0040	-.3250	-.3960	-.4820	-.2690	.0600	.0670	-.1450	-.3390	-.0890	-.0170	-.0150
30.000	1.2960		.3980	-.0520	-.3590	-.4220	-.4910	-.0640	.0250	-.0030	-.1760	-.2840	-.0910	-.0040	-.0580
60.000	1.2960		.3860	-.0670	-.3620	-.4220	-.1360	-.0690	.0245	-.0450	-.2850	-.1070	-.1030	-.0310	-.0840
90.000	1.2960	1.0600	.4070	-.0480	-.3520	-.4210	-.0490	-.0440	.4250	-.4970	-.5120	-.1980	-.4190	-.2520	-.1650
120.000	1.2960		.4460	.0000	-.3210	-.3900	-.0020	.0010	.2060	.2080	-.1150	.0300	-.0330	-.2010	-.3610
135.000	1.2960							-.0140		.2910		.0370		-.2420	
150.000	1.2960		.5360	.0790	-.2620	-.3460	-.4260	-.0310	.2750	.2890	-.2740	.0740	-.0820	-.2850	-.4290
165.000	1.2960			.1190	-.2340	-.3110	-.3960	-.2770	.3490	.3640	-.3970		-.0750		-.4600
180.000	1.2960	1.2580	.6360	.1560	-.1970	-.2770	-.3690	-.3190	.3890	.4660	-.3960	.1510	-.0210	-.2100	-.4110
270.000	1.2960	1.3000													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0810	-.0210	-.0830
30.000	-.0400	.0030	-.0960
60.000	-.0210	-.0060	-.0930
90.000			-.1850
120.000	.0780	-.0350	-.1860
135.000	.0790	-.0500	-.2240
150.000	.0680	-.1490	-.2350
165.000		-.2880	-.2600
180.000	.0870		

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AMES 11-707 IA9 CBA + S3 + T9 EXTERNAL TANK (RBNTO9)

MACH (3) = 1.100 BETAT (8) = 8.270

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L=	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2760	1.0650	.4280	-.0180	-.3350	-.4100	-.4650	-.1350	.0310	.0170	-.1790	-.3280	-.1080	-.0820	-.0230
30.000	1.2760		.3660	-.0760	-.3790	-.4375	-.2070	-.0670	.0080	-.0040	-.1780	-.2750	-.0910	-.0170	-.0490
60.000	1.2760		.3470	-.0960	-.3830	-.4430	-.1000	-.0720	-.0520	-.0510	-.2120	-.1630	-.1080	-.0330	-.0650
90.000	1.2760	1.0040	.3620	-.0860	-.3780	-.4200	-.0520	-.0740	.4490	-.4770	-.5150	-.1210	-.4110	-.2250	-.1630
120.000	1.2760		.4010	-.0370	-.3480	-.4210	-.1340	-.0770	.3380	.2370	-.1440	-.0070	-.0400	-.2200	-.3060
135.000	1.2760							-.0260		.2780		.0120		-.2690	
150.000	1.2760		.4990	.0470	-.2890	-.3650	-.4470	-.1210	.3280	.2620	-.3400	.0520	-.1300	-.3330	-.4990
165.000	1.2760			.0950	-.2540	-.3280	-.4130	-.3710	.3490	.3340	-.4220		-.1240		-.5670
180.000	1.2760	1.2390	.6270	.1460	-.2020	-.2850	-.3830	-.3320	.3650	.4470	-.4220	-.1370	-.0550	-.2850	-.4480
270.000	1.2760	1.3160													

X/L=	.7449	.8526	.9290
PHI			
.000	-.0980	-.0200	-.1010
30.000	-.0850	.0120	-.1070
60.000	-.0380	-.0050	-.1070
90.000			-.1880
120.000	.0850	-.0540	-.2380
135.000	.0080	-.0500	-.2930
150.000	-.0010	-.2320	-.2630
165.000		-.3120	-.2570
180.000	-.0020		

MACH (4) = 1.245 BETAT (1) = -8.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L=	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3560	1.1780	.4930	.0550	-.2340	-.2990	-.3720	-.3460	-.1510	.0960	-.0420	-.2380	-.1810	-.0950	-.0290
30.000	1.3560		.5930	.1490	-.1680	-.2370	-.3310	-.2930	-.0450	-.1000	-.2550	-.2850	-.0460	-.0740	-.1130
60.000	1.3560		.7180	.2570	-.0800	-.1580	-.2570	-.2120	.1850	-.1140	-.5750	-.1650	-.0570	.0160	-.0410
90.000	1.3560	1.3970	.8160	.3440	-.0120	-.1040	-.1920	-.1060	.5540	-.3360	-.6660	-.2760	-.2980	-.1270	-.0850
120.000	1.3560		.8380	.3720	.0100	-.0810	-.1720	-.1280	.4140	.1660	-.1480	.1930	.2550	.0890	-.0890
135.000	1.3560							-.1540		.3020		.1660		.1180	
150.000	1.3560		.7925	.3270	-.0310	-.1160	-.2050	-.1740	.2160	.4460	.0640	.0350	.2120	.1180	-.0870
165.000	1.3560			.2790	-.0710	-.1520	-.2360	-.2040	.2450	.5480	.0520		.0390		-.1630
180.000	1.3560	1.3130	.6810	.2240	-.1110	-.1900	-.2750	-.2380	.2690	.5540	.0500	-.2440	.1670	-.0310	-.2870
270.000	1.3560	1.0840													

X/L=	.7449	.8526	.9290
PHI			

AMES 11-FT 1A9 CFA + 83 + 79 EXTERNAL TANK (RBMT03)

MACH = [illegible] = 1.249 BETAT (I) = -8.190

SECTION = 1 EXTERNAL TANK DEPENDENT VARIABLE CP

X/L*	.7449	.8328	.9209
YW/			
.000	-.0339	-.0483	-.0483
[illegible]	[illegible]	[illegible]	-.0290
[illegible]	[illegible]	-.0139	.0540
[illegible]			-.1693
[illegible]	-.1188	.2990	[illegible]
[illegible]	[illegible]	.5487	.7059
[illegible]	[illegible]	.3488	.7855
[illegible]		[illegible]	.7968
[illegible]	-.1377		

MACH = [illegible] = 1.249 BETAT (I) = -8.111

SECTION = 1 EXTERNAL TANK DEPENDENT VARIABLE CP

X/L*	[illegible]	[illegible]	.0412	.1088	.1984	.1909	.2121	.2336	.2876	.3412	.3950	.4489	.5027	.5565	.6372
YW/															
[illegible]	1.3990	1.1947	.9120	.7660	-.2240	-.2951	-.3630	-.3290	-.1410	.1240	-.0090	-.2180	-.2[illegible]	-.[illegible]	.[illegible]
[illegible]	1.3990		.5420	.1370	-.1867	-.2470	-.3370	-.2930	-.0310	-.0360	-.2060	-.2790	-.[illegible]	-.[illegible]	-.[illegible]
[illegible]	1.3990		.6620	.2220	-.1170	-.1850	-.2490	-.2360	.1850	-.[illegible]	-.5720	-.1420	-.0100	.[illegible]	-.[illegible]
[illegible]	1.3990	1.3990	.7660	.3000	-.0530	-.1390	-.2020	-.1410	.3520	-.[illegible]	-.6240	-.3210	-.2290	-.2320	-.[illegible]
[illegible]	1.3990		.8010	.3320	-.[illegible]	-.[illegible]	-.[illegible]	-.1610	.4250	.2100	-.1390	.1190	.1690	.[illegible]	-.[illegible]
[illegible]	1.3990							-.[illegible]		.3450		.0990		.[illegible]	
[illegible]	1.3990		.9990	.[illegible]	-.[illegible]	-.1779	-.2160	-.1810	.2850	.4670	.0370	-.[illegible]	.1830	.[illegible]	-.[illegible]
[illegible]	1.3990			.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.2440	.[illegible]	.5320	.0280		.1820		-.[illegible]
[illegible]	1.3990	1.3390	.6890	.2350	-.[illegible]	-.1810	-.[illegible]	-.[illegible]	.2430	.5340	.0280	-.2110	.1670	-.[illegible]	-.[illegible]
[illegible]	[illegible]	1.3410													

X/L* .7449 .8328 .9209

YW/			
[illegible]	-.[illegible]	-.[illegible]	-.[illegible]
[illegible]	-.[illegible]	-.[illegible]	-.[illegible]
[illegible]	-.[illegible]	-.[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-.[illegible]
[illegible]	[illegible]	-.[illegible]	-.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	-.[illegible]		

[illegible]

[illegible]

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

[illegible]

PHI

[illegible]

MACH (4) = 1.248 BETAT (4) = -2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.9027	.9585	.9972
PHI															
.000	1.4030	1.2140	.5230	.0770	-.2140	-.2620	-.3600	-.3190	-.0430	.1430	.0300	-.1980	-.2430	-.0490	.0320
30.000	1.4030		.5560	.1080	-.1990	-.2660	-.3500	-.3080	.0110	.0800	-.1110	-.2690	-.0860	-.0840	-.0290
60.000	1.4030		.6110	.1510	-.1670	-.2390	-.3240	-.2840	.1750	-.0820	-.3330	-.1020	-.0020	-.0320	-.0810
90.000	1.4030	1.3270	.6690	.2030	-.1260	-.2070	-.2870	-.2120	.3310	-.3250	-.3350	-.4090	.0290	-.3290	-.1130
120.000	1.4030		.7130	.2480	-.0910	-.1710	-.2530	-.2180	.3140	.2740	-.1110	.0310	.1490	.0990	-.1580
135.000	1.4030							-.2120		.4070		.0250		.0890	
150.000	1.4030		.7340	.2680	-.0800	-.1640	-.2430	-.2060	.3200	.4740	-.0120	-.0410	.1440	.0360	-.1580
165.000	1.4030			.4630	-.0820	-.1640	-.2430	-.2050	.2820	.5710	-.0870		.1780		-.1710
180.000	1.4030	1.3810	.7220	.2480	-.0910	-.1670	-.2580	-.2170	.2140	.6410	-.0660	-.1050	.2320	-.0030	-.1680
270.000	1.4030	1.2400													

X/LT	.7449	.8528	.9290
PHI			

MACH (4) = 1.246 BETAT (4) = -2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0150	-.0340	-.0210
30.000	-.0160	-.0210	-.0270
60.000	-.0510	-.0010	-.0060
90.000			-.0540
120.000	-.0490	.1630	-.0540
135.000	-.1210	.1790	-.0990
150.000	-.1600	.1760	-.0980
165.000		.0770	-.0990
180.000	-.2220		

MACH (4) = 1.243 BETAT (5) = 2.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.9372
PHI															
.000	1.4040	1.2100	.5240	.0780	-.2190	-.2820	-.3620	-.3200	-.0530	.1440	.0250	-.1990	-.2480	-.0550	.0900
30.000	1.4040		.5120	.0680	-.2280	-.2890	-.3740	-.3260	.0250	.0790	.0110	-.2610	-.1270	-.0700	-.0250
60.000	1.4040		.5250	.0790	-.2170	-.2920	-.3650	-.3180	.1400	-.0500	-.4790	-.0810	-.0400	-.0630	-.0400
90.000	1.4040	1.2450	.5630	.1130	-.1950	-.2740	-.3470	-.2690	.5440	-.3310	-.4490	-.4420	-.1640	-.3090	-.1240
120.000	1.4040		.6120	.1590	-.1580	-.2400	-.3180	-.2750	.2940	.2810	-.0860	-.0360	.1130	-.0080	-.2150
135.000	1.4040							-.2660		.3210		-.0110		-.0270	
150.000	1.4040		.6760	.2190	-.1190	-.2010	-.2840	-.2460	.2270	.3400	-.0440	-.0230	.1010	-.0440	-.2150
165.000	1.4040			.2390	-.1040	-.1870	-.2690	-.2340	.2390	.4510	-.1220		.1990		-.2030
180.000	1.4040	1.3670	.7230	.2480	-.0900	-.1740	-.2630	-.2210	.2590	.5770	-.1220	-.1030	.2320	-.0130	-.1740
270.000	1.4040	1.3250													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0220	-.0390	-.0270
30.000	-.0210	-.0230	-.0080
60.000	-.0210	-.0070	-.0500
90.000			-.1010
120.000	-.0950	.0730	-.1000
135.000	-.1480	.0720	-.1430
150.000	-.1950	.0450	-.1600
165.000		-.0620	-.1920
180.000	-.2310		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3920	1.1960	.5130	.0690	-.2200	-.2880	-.3620	-.3180	-.0570	.1330	.0250	-.2090	-.2150	-.0870	.0160
30.000	1.3920		.4810	.0420	-.2430	-.3040	-.3800	-.3260	.0290	.0140	.0240	-.2510	-.1610	-.0680	-.0220
60.000	1.3920		.4810	.0420	-.2420	-.3050	-.3760	-.3280	.0290	-.0190	-.4500	-.0750	-.0540	-.0870	-.0240
90.000	1.3920	1.1930	.5100	.0620	-.2280	-.2960	-.3690	-.2230	.5590	-.3340	-.3730	-.4560	-.1210	-.3120	-.1120
120.000	1.3920		.5570	.1110	-.1930	-.2640	-.3430	-.2460	.1220	.3430	-.0750	-.0510	.1200	-.0210	-.2490
135.000	1.3920							-.2820		.2660		.0020		-.0520	
150.000	1.3920		.6390	.1880	-.1460	-.2210	-.3040	-.2670	.1710	.3250	-.0940	-.0770	.1180	-.0830	-.2490
165.000	1.3920			.2170	-.1210	-.1980	-.2790	-.2480	.1690	.5220	-.1940		.1640		-.2410
180.000	1.3920	1.3550	.7170	.2420	-.1000	-.1750	-.2630	-.2270	.2340	.6090	-.1940	-.1810	.2070	-.0180	-.2200
270.000	1.3920	1.3540													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0250	-.0440	-.0450
30.000	-.0190	-.0350	-.0300
60.000	-.0190	-.0200	-.0310
90.000			-.1060
120.000	-.0540	-.0190	-.1070
135.000	-.0540	-.0180	-.1670
150.000	-.0560	-.0180	-.1560
165.000		-.1900	-.1570
180.000	-.2920		

MACH (4) = 1.244 BETAT (7) = 6.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3780	1.1830	.5040	.0680	-.2300	-.2960	-.3720	-.3340	-.0710	.1100	.0000	-.2290	-.1920	-.0850	-.0040
30.000	1.3780		.4540	.0230	-.2590	-.3180	-.3950	-.3490	.0280	.0250	-.0510	-.2770	-.2090	-.0870	-.0580
60.000	1.3780		.4410	.0120	-.2640	-.3320	-.3960	-.3060	-.0160	.0250	-.4070	-.0830	-.0780	-.0950	-.0130
90.000	1.3780	1.1340	.4650	.0250	-.2540	-.3260	-.3950	-.0550	.4750	-.3160	-.3080	-.4790	-.1150	-.2980	-.1100
120.000	1.3780		.5050	.0740	-.2270	-.3010	-.3700	-.0050	.0860	.3140	-.0060	-.1420	.0970	-.0410	-.2780
135.000	1.3780							-.1600		.3580		-.0740		-.0750	
150.000	1.3780		.5940	.1510	-.1730	-.2510	-.3290	-.2840	.2030	.3480	-.1390	-.1130	.0860	-.1130	-.3090
165.000	1.3780			.1900	-.1380	-.2200	-.3000	-.2650	.1990	.4760	-.2310		.1480		-.3390
180.000	1.3780	1.3580	.6940	.2300	-.1100	-.1860	-.2740	-.2360	.2290	.5720	-.1860	-.2290	.2030	-.0290	-.2890
270.000	1.3780	1.3790													

X/LT	.7449	.8526	.9290
PHI			

MACH (4) = 1.244 BETAT (7) = 6.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0380	-.0430	-.0310
30.000	-.0260	-.0120	-.0310
60.000	-.0150	.0090	-.0190
90.000			-.1010
120.000	-.0160	.0070	-.1010
135.000	-.0370	.0090	-.1470
150.000	-.0340	.0290	-.1820
165.000		-.2450	-.2360
180.000	-.3560		

MACH (4) = 1.247 BETAT (8) = 8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3560	1.1990	.4870	.0550	-.2350	-.3000	-.3780	-.3490	-.0770	.0680	-.0610	-.2380	-.1620	-.1070	-.0270
30.000	1.3560		.4230	.0000	-.2780	-.3330	-.4080	-.3610	.0010	.0950	-.0600	-.2230	-.1850	-.0820	-.0220
60.000	1.3560		.3990	-.0210	-.2860	-.3490	-.4100	-.1100	-.0380	.0370	-.3060	-.0940	-.1050	-.0920	-.0010
90.000	1.3560	1.0800	.4170	-.0140	-.2800	-.3490	-.3320	-.0660	.3090	-.2950	-.3300	-.3400	-.1030	-.2680	-.1090
120.000	1.3560		.4580	.0290	-.2570	-.3270	-.3930	-.0330	.1200	.2660	.0030	-.1620	.0830	-.0620	-.2610
135.000	1.3560							-.2920		.3550		-.1730		-.1000	
150.000	1.3560		.5550	.1130	-.2000	-.2770	-.3510	-.3070	.1420	.3680	-.1780	-.2450	.0470	-.1500	-.3740
165.000	1.3560			.1670	-.1620	-.2390	-.3160	-.2830	.1420	.4300	-.2610		.1070		-.4180
180.000	1.3560	1.3180	.6780	.2200	-.1200	-.1960	-.2790	-.2380	.1120	.5460	-.2590	-.2690	.1470	-.0410	-.2890
270.000	1.3560	1.3940													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0330	-.0520	-.0450
30.000	-.0090	-.0330	-.0560
60.000	.0040	-.0190	-.0420
90.000			-.1160
120.000	.0040	-.0200	-.1840
135.000	-.1070	-.0100	-.2080
150.000	-.1880	-.1260	-.2370
165.000		-.2960	-.2370
180.000	-.3[illegible]		

AMES 11-707 IA9 OEA • 93 • T9 EXTERNAL TANK

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .000
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .599 BETAT (1) = -8.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0240	.8680	.1670	-.2470	-.3920	-.3700	-.2670	-.1640	-.1190	-.1260	-.1150	-.1090	-.0970	-.0910	-.0680
30.000	1.0240		.2820	-.1710	-.3430	-.3360	-.2470	-.1580	-.1520	-.1620	-.1160	-.1060	-.0900	-.0880	-.1010
60.000	1.0240		.4120	-.0410	-.2270	-.2200	-.1400	-.0490	-.1170	-.3330	-.1180	-.0710	-.0550	-.0467	-.0480
90.000	1.0240	1.0830	.4930	.0360	-.1440	-.1230	.0040	.1200	.1890	-1.0670	-.1550	-.1510	-.1270	-.1160	-.0760
120.000	1.0240		.4910	.0450	-.1520	-.1380	-.0300	.0670	.0910	-.1140	-.0200	-.0050	-.0080	.0030	.0140
135.000	1.0240							.0160		.0120		-.0030		-.0060	
150.000	1.0240		.4140	-.0270	-.2160	-.2020	-.1080	-.0190	.0700	.0720	.0020	-.0280	-.0550	-.0480	-.0070
165.000	1.0240			-.0840	-.2580	-.2370	-.1340	-.0380	.0800	.1080	-.0640		-.1490		-.0800
180.000	1.0240	.9470	.2870	-.1460	-.2890	-.2710	-.1550	-.0610	.0640	.0490	-.0650	-.2040	-.2240	-.2180	-.1680
270.000	1.0240	.7170													

X/LT	.7449	.8528	.9290
PHI			
.000	-.1030	-.1390	-.3320
30.000	-.1040	-.1430	-.4030
60.000	-.0770	-.1170	-.4020
90.000			-.5750
120.000	.1000	-.0810	-.5280
135.000	.1000	-.0360	-.5480
150.000	.0930	-.0130	-.5490
165.000		-.0530	-.4720
180.000	-.0750		

MACH (1) = .599 BETAT (2) = -6.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0330	.8980	.1890	-.2320	-.3710	-.3520	-.2500	-.1490	-.0980	-.1080	-.0990	-.0850	-.0720	-.0700	-.0490
30.000	1.0330		.2780	-.1740	-.3390	-.3280	-.2400	-.1330	-.1290	-.1340	-.0940	-.0920	-.0740	-.0680	-.0730
60.000	1.0330		.3730	-.0760	-.2470	-.2330	-.1410	-.0480	-.1050	-.3370	-.1270	-.0740	-.0630	-.0500	-.0470
90.000	1.0330	1.0650	.4420	-.0070	-.1700	-.1470	-.0120	.1110	.1910	-1.1350	-.2220	-.1600	-.1370	-.1190	-.0780
120.000	1.0330		.4460	.0070	-.1740	-.1480	-.0440	.0600	.1920	-.1200	-.0590	-.0240	-.0290	-.0190	-.0050
135.000	1.0330							.0180		.0050		-.0210		-.0210	
150.000	1.0330		.3990	-.0420	-.2170	-.2030	-.1020	-.0110	.0810	.0670	-.0100	-.0390	-.0330	-.0310	-.0060

MACH (1) = .599 BETAT (2) = -6.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.0530			-.0850	-.2510	-.2380	-.1180	-.0290	.0910	.1070	-.0560		-.1200		-.0490
180.000	1.0530	.9720	.3040	-.1280	-.2740	-.2530	-.1450	-.0380	.0900	.0780	-.0570	-.1590	-.1710	-.1580	-.1100
270.000	1.0530	.7940													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0830	-.1150	-.3180
30.000	-.0790	-.1200	-.3550
60.000	-.0745	-.1170	-.3810
90.000			-.3230
120.000	.0820	-.0750	-.3020
135.000	.0830	-.0590	-.3100
150.000	.0780	-.0510	-.3230
165.000		-.0960	-.4220
180.000	-.0350		

MACH (1) = .598 BETAT (3) = -4.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0780	.9100	.2030	-.2230	-.3580	-.3370	-.2370	-.1270	-.0860	-.0870	-.0780	-.0700	-.0600	-.0540	-.0320
30.000	1.0780		.2610	-.2010	-.3390	-.3170	-.2240	-.1220	-.1070	-.1260	-.0790	-.0760	-.0570	-.0550	-.0710
60.000	1.0780		.3300	-.1160	-.2630	-.2430	-.1440	-.0450	-.0920	-.3270	-.1250	-.0740	-.0550	-.0450	-.0420
90.000	1.0780	1.0430	.3880	-.0640	-.2010	-.1680	-.0260	.1060	.1950	-1.1800	-.2380	-.1620	-.1370	-.1160	-.0750
120.000	1.0760		.4000	-.0330	-.1940	-.1730	-.0560	.0560	.0940	-.1280	-.0590	-.0450	-.0430	-.0300	-.0130
135.000	1.0760							.0160		-.0100		-.0420		-.0310	
150.000	1.0760		.3800	-.0590	-.2250	-.2090	-.0980	-.0060	.0840	.0560	-.0220	-.0490	-.0600	-.0530	-.0050
165.000	1.0760			-.0820	-.2440	-.2280	-.1230	-.0160	.1020	.1060	-.0240		-.0980		-.0260
180.000	1.0760	.9970	.3220	-.1130	-.2610	-.2450	-.1250	-.0250	.1070	.0970	-.0360	-.1170	-.1260	-.1120	-.0580
270.000	1.0760	.8610													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0630	-.1020	-.3460
30.000	-.0640	-.1010	-.3490
60.000	-.0640	-.1240	-.3330
90.000			-.4220
120.000	.0720	-.0940	-.4540
135.000	.0660	-.0800	-.4700
150.000	.0690	-.0780	-.4440

MACH (1) = .598 BETAT (3) = -4.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
185.000		-.1340	-.3330
180.000	.0115		

MACH (1) = .600 BETAT (4) = -2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0890	.9250	.2150	-.2180	-.3540	-.3360	-.2310	-.1240	-.0760	-.0820	-.0720	-.0630	-.0470	-.0450	-.0180
30.000	1.0890		.2420	-.2100	-.3410	-.3180	-.2200	-.1150	-.0880	-.1120	-.0740	-.0680	-.0535	-.0470	-.0530
60.000	1.0890		.2870	-.1510	-.2830	-.2570	-.1460	-.0400	-.0790	-.3130	-.1280	-.0750	-.0560	-.0480	-.0430
90.000	1.0890	1.0080	.3310	-.1120	-.2320	-.1930	-.0410	.0980	.2000	-1.2170	-.2350	-.1800	-.1410	-.1180	-.0770
120.000	1.0890		.3490	-.0790	-.2230	-.1920	-.0680	.0490	.0980	-.1340	-.0730	-.0650	-.0630	-.0470	-.0260
135.000	1.0890							.0100		-.0160		-.0590		-.0470	
150.000	1.0890		.3550	-.0830	-.2420	-.2210	-.1060	-.0070	.0850	.0410	-.0450	-.0630	-.0700	-.0550	-.0150
165.000	1.0890			-.0850	-.2450	-.2240	-.1160	-.0090	.1080	.0960	-.0590		-.0890		-.0170
180.000	1.0890	1.0130	.3380	-.1060	-.2480	-.2240	-.1240	-.0100	.1160	.1120	-.0580	-.0880	-.1000	-.0840	-.0260
270.000	1.0890	.9200													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0520	-.0920	-.3260
30.000	-.0530	-.0930	-.3690
60.000	-.0540	-.1220	-.3320
90.000			-.4150
120.000	.0440	-.1080	-.4170
135.000	.0440	-.1120	-.4470
150.000	.0490	-.1210	-.4200
165.000		-.1900	-.2940
180.000	.0330		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTD8)

MACH (1) = .600 BETAT (5) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0940	.9230	.2150	-.2180	-.3570	-.3380	-.2220	-.1180	-.0710	-.0800	-.0680	-.0570	-.0420	-.0390	-.0190
30.000	1.0940		.2180	-.2280	-.3440	-.3240	-.2070	-.1080	-.0780	-.1030	-.0670	-.0680	-.0450	-.0380	-.0310
60.000	1.0940		.2380	-.1860	-.2990	-.2570	-.1390	-.0350	-.0620	-.3110	-.1250	-.0750	-.0530	-.0500	-.0430
90.000	1.0940	.9870	.2760	-.1590	-.2520	-.2000	-.0440	.1020	.2080	-1.1760	-.2390	-.1750	-.1430	-.1200	-.0810
120.000	1.0940		.3010	-.1200	-.2420	-.2030	-.0750	.0480	.1010	-.1360	-.0880	-.0720	-.0710	-.0540	-.0330
135.000	1.0940							.0110		-.0260		-.0740		-.0540	
150.000	1.0940		.3330	-.0960	-.2490	-.2170	-.1090	-.0080	.0810	.0250	-.0860	-.0770	-.0830	-.0680	-.0210
165.000	1.0940			-.0970	-.2490	-.2220	-.1120	-.0080	.1060	.0780	-.0750		-.0940		-.0170
180.000	1.0940	1.0210	.3470	-.1000	-.2460	-.2230	-.1200	-.0120	.1190	.1150	-.0750	-.0820	-.0930	-.0710	-.0200
270.000	1.0940	.9690													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0520	-.0870	-.3300
30.000	-.0510	-.0880	-.3300
60.000	-.0520	-.1250	-.3310
90.000			-.4030
120.000	.0250	-.1300	-.4150
135.000	.0260	-.1320	-.4210
150.000	.0330	-.1730	-.3800
165.000		-.2600	-.2460
180.000	.0440		

MACH (1) = .601 BETAT (6) = 2.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0900	.9170	.2110	-.2210	-.3490	-.3350	-.2260	-.1250	-.0750	-.085	-.0720	-.0610	-.0470	-.0440	-.0200
30.000	1.0900		.1890	-.2450	-.3540	-.3250	-.2100	-.1070	-.0690	-.0970	-.0750	-.0690	-.0450	-.0380	-.0430
60.000	1.0900		.1950	-.2280	-.3090	-.2620	-.1420	-.0340	-.0450	-.2980	-.1220	-.0710	-.0510	-.0490	-.0410
90.000	1.0900	.9150	.2140	-.2040	-.2680	-.2130	-.0520	.1030	.2170	-1.1190	-.2110	-.1610	-.1260	-.1170	-.0790
120.000	1.0900		.2440	-.1640	-.2630	-.2160	-.0890	.0440	.1000	-.1370	-.1050	-.0870	-.0840	-.0500	-.0360
135.000	1.0900							.0070		-.0370		-.0920		-.0650	
150.000	1.0900		.2960	-.1230	-.2660	-.2280	-.1230	-.0090	.0720	.0040	-.0980	-.0990	-.1100	-.0830	-.0360
165.000	1.0900			-.1150	-.2620	-.2300	-.1280	-.0150	.0950	.0570	-.0990		-.1170		-.0430
180.000	1.0900	1.0160	.3380	-.1050	-.2480	-.2230	-.1260	-.0100	.1160	.1100	-.0990	-.0890	-.1080	-.0800	-.0320
270.000	1.0900	1.0080													

X/LT	.7449	.8526	.9290
PHI			

MACH (1) = .601 BETAT (6) = 2.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0590	-.0925	-.3340
30.000	-.0580	-.0900	-.3240
60.000	-.0570	-.1220	-.3410
90.000			-.3920
120.000	.0090	-.1430	-.3820
135.000	.0060	-.1650	-.4050
150.000	.0100	-.2140	-.3740
165.000		-.3900	-.2510
180.000	.0340		

MACH (1) = .601 BETAT (7) = 4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2356	.2874	.3412	.3950	.4469	.5027	.5585	.6372
PHI															
.000	1.0740	.8980	.1950	-.2330	-.3690	-.3440	-.2300	-.1310	-.0840	-.0980	-.0800	-.0750	-.0520	-.0570	-.0280
30.000	1.0740		.1550	-.2750	-.3600	-.3280	-.2080	-.0990	-.0600	-.0950	-.0810	-.0670	-.0490	-.0450	-.0440
60.000	1.0740		.1400	-.2680	-.3210	-.2630	-.1390	-.0220	-.0340	-.2750	-.1210	-.0720	-.0520	-.0440	-.0380
90.000	1.0740	.8510	.1600	-.2480	-.2840	-.2120	-.0500	.1040	.2290	-1.0220	-.1770	-.1600	-.1390	-.1130	-.0750
120.000	1.0740		.1850	-.2080	-.2870	-.2300	-.0940	.0370	.1050	-.1330	-.1140	-.0940	-.0870	-.0840	-.0440
135.000	1.0740							-.0030		-.0470		-.1090		-.0780	
150.000	1.0740		.2560	-.1570	-.2830	-.2390	-.1320	-.0200	.0600	-.0220	-.1280	-.1280	-.1340	-.1030	-.0480
165.000	1.0740			-.1320	-.2760	-.2390	-.1350	-.0270	.0810	.0240	-.1280		-.1520		-.0790
180.000	1.0740	1.0070	.3350	-.1070	-.2550	-.2240	-.1300	-.0180	.1040	.1010	-.1280	-.1130	-.1370	-.1100	-.0830
270.000	1.0740	1.0410													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0690	-.0990	-.3190
30.000	-.0560	-.0920	-.3000
60.000	-.0550	-.1050	-.3050
90.000			-.4550
120.000	.0050	-.1300	-.3690
135.000	.0040	-.1490	-.3540
150.000	-.0100	-.2170	-.2670
165.000		-.3220	-.1800
180.000	.0100		

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNTO6)

MACH (1) = .999 BETAT (8) = 8.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0520	.8780	.1620	-.2360	-.3850	-.3640	-.2540	-.1480	-.1040	-.1060	-.0990	-.0880	-.0780	-.0700	-.0540
30.000	1.0520		.1210	-.2990	-.3830	-.3480	-.2190	-.1030	-.0620	-.1010	-.0990	-.0750	-.0590	-.0480	-.0540
60.000	1.0520		.0900	-.3020	-.3370	-.2730	-.1350	-.0150	-.0160	-.2550	-.1020	-.0680	-.0540	-.0480	-.0390
90.000	1.0520	.7820	.1060	-.2870	-.2990	-.2260	-.0490	.0990	.2380	-.9590	-.2160	-.1540	-.1240	-.0990	-.0700
120.000	1.0520		.1310	-.2540	-.3040	-.2490	-.1030	.0280	.1040	-.1400	-.1220	-.1070	-.1000	-.0790	-.0510
135.000	1.0520							-.0190		-.0680		-.1350		-.0940	
150.000	1.0520		.2090	-.1980	-.3130	-.2720	-.1510	-.0440	.0450	-.0560	-.1560	-.1660	-.1660	-.1280	-.0830
165.000	1.0520			-.1700	-.2980	-.2690	-.1490	-.0520	.0610	-.0240	-.1600		-.1960		-.1230
180.000	1.0520	.9790	.3080	-.1300	-.2790	-.2570	-.1460	-.0420	.0880	.0720	-.1630	-.1680	-.1780	-.1660	-.1140
270.000	1.0520	1.0710													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0810	-.1220	-.3240
30.000	-.0780	-.0990	-.2680
60.000	-.0520	-.1120	-.2910
90.000			-.4250
120.000	-.0110	-.1430	-.3540
135.000	-.0100	-.1490	-.2810
150.000	-.0300	-.2130	-.2240
165.000		-.3570	-.2130
180.000	-.0400		

MACH (1) = .800 BETAT (9) = 8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0210	.8390	.1550	-.2600	-.3910	-.3750	-.2750	-.1740	-.1350	-.1380	-.1290	-.1160	-.1070	-.0980	-.0770
30.000	1.021.		.0720	-.3200	-.3940	-.3500	-.2330	-.1140	-.0690	-.1120	-.1180	-.0860	-.0740	-.0630	-.0780
60.000	1.0210		.0400	-.3260	-.3340	-.2790	-.1350	-.0110	-.0040	-.2400	-.1150	-.0860	-.0580	-.0480	-.0510
90.000	1.0210	.7080	.0460	-.3210	-.3060	-.2330	-.0550	.0990	.2440	-.9230	-.1820	-.1520	-.1160	-.0940	-.0530
120.000	1.0210		.0730	-.2890	-.3220	-.2640	-.1170	.0210	.1000	-.1550	-.1410	-.1270	-.1170	-.0910	-.0690
135.000	1.0210							-.0370		-.0870		-.1540		-.1110	
150.000	1.0210		.1600	-.2360	-.3310	-.2980	-.1810	-.0690	.0160	-.1000	-.2020	-.2030	-.2040	-.1640	-.1050
165.000	1.0210			-.1930	-.3160	-.2930	-.1800	-.0765	.0260	-.0740	-.2370		-.2360		-.1820
180.000	1.0210	.9470	.2840	-.1430	-.2860	-.2720	-.1690	-.0680	.0580	.0360	-.2360	-.2230	-.2470	-.2330	-.1800
270.000	1.0210	1.0840													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-7D7 IA9 CRA + S3 + T9 EXTERNAL TANK (RBNTOS)

MACH (1) = .600 BETAT (9) = 8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.1140	-.1525	-.3460
30.000	-.0790	-.1150	-.2830
60.000	-.0640	-.1140	-.3200
90.000			-.4930
120.000	-.0310	-.1650	-.3790
135.000	-.0310	-.1410	-.2860
150.000	-.0350	-.2300	-.2740
165.000		-.3520	-.2680
180.000	-.0090		

MACH (2) = .904 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1590	1.0100	.3010	-.1950	-.3530	-.6020	-.1550	-.0500	-.0400	-.1790	-.2060	-.1090	-.0750	-.0680	-.0380
30.000	1.1590		.4080	-.1170	-.4470	-.4830	-.2190	-.0610	-.0680	-.3000	-.1870	-.1050	-.0750	-.0670	-.0710
60.000	1.1590		.5330	.0190	-.3340	-.3050	-.0940	.0570	.0420	-.4810	-.4540	-.0590	-.0320	-.0250	-.0080
90.000	1.1590	1.2070	.6060	.0920	-.2550	-.1940	.0570	.2300	.3700	-.9570	-.4470	-.2220	-.1310	-.0700	.0040
120.000	1.1590		.6000	.0940	-.2510	-.2050	.0060	.1520	.2250	-.2350	.0080	.0130	-.0300	-.0630	.0270
135.000	1.1590							.0900		-.0280		.0140		-.1010	
150.000	1.1590		.5220	.0220	-.3320	-.3260	-.0930	.0500	.1630	.1250	-.0160	-.0170	-.0960	-.1700	.0290
165.000	1.1590			-.0380	-.3720	-.4150	-.1080	.0310	.1820	.2330	-.1620		-.2060		-.0520
180.000	1.1590	1.0770	.4040	-.1040	-.4340	-.4820	-.1150	.0280	.1980	.2330	-.2880	-.1990	-.2860	-.3970	-.1300
270.000	1.1590	.8700													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0850	-.1030	-.3090
30.000	-.0640	-.0910	-.2700
60.000	-.0150	-.0610	-.2260
90.000			-.3120
120.000	.1880	.0990	-.1780
135.000	.1880	.1300	-.1910
150.000	.1810	.1590	-.2070
165.000		.1030	-.1950
180.000	.0240		

AMES 11-FOT IA9 O2A + S3 + T9 EXTERNAL TANK (RBNTO8)

MACH (2) = .901 BETAT (2) = -6.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3990	.4489	.5027	.5585	.6372
PHI															
.000	1.1840	1.0320	.3170	-.1870	-.5410	-.6180	-.1390	-.0240	-.0120	-.1550	-.3250	-.0830	-.0590	-.0490	-.0230
30.000	1.1840		.3980	-.1290	-.4730	-.5220	-.1680	-.0300	-.0340	-.2590	-.2380	-.0930	-.0600	-.0330	-.0620
60.000	1.1840		.4960	-.0220	-.3700	-.3480	-.0820	.0690	.0630	-.4560	-.4940	-.0790	-.0370	-.0280	-.0140
90.000	1.1840	1.1890	.5530	.0380	-.2830	-.2240	.0440	.2290	.3760	-.9560	-.4440	-.2550	-.1460	-.0780	-.0030
120.000	1.1840		.5540	.0510	-.2810	-.2260	-.0010	.1540	.2360	-.2120	-.0130	-.0110	-.0640	-.1150	.0110
135.000	1.1840							.0990		-.0190		-.0050		-.1560	
150.000	1.1840		.5050	.0020	-.3650	-.3650	-.0720	.0680	.1840	.1210	-.0650	-.0220	-.1110	-.2410	.0210
165.000	1.1840			-.0480	-.3840	-.4540	-.0830	.0520	.2020	.2310	-.2140		-.1820		-.0200
180.000	1.1840	1.1000	.4250	-.0920	-.4410	-.4910	-.0850	.0510	.2170	.2300	-.3620	-.1430	-.2410	-.4240	-.0690
270.000	1.1840	.9350													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0890	-.0920	-.2880
30.000	-.0490	-.0850	-.2760
60.000	-.0180	-.0700	-.2430
90.000			-.3040
120.000	.1620	.0570	-.2050
135.000	.1620	.0830	-.2060
150.000	.1630	.1000	-.2290
165.000		.0160	-.2180
180.000	.0580		

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3990	.4489	.5027	.5585	.6372
PHI															
.000	1.2030	1.0470	.3270	-.1790	-.5380	-.5940	-.1170	-.0070	.0030	-.1380	-.3890	-.0610	-.0420	-.0310	-.0110
30.000	1.2030		.3800	-.1520	-.4940	-.5530	-.1300	-.0050	-.0070	-.2220	-.3650	-.0710	-.0450	-.0380	-.0550
60.000	1.2030		.4490	-.0680	-.4270	-.4350	-.0630	.0830	.0790	-.4370	-.4710	-.0660	-.0360	-.0280	-.0210
90.000	1.2030	1.1640	.5000	-.0200	-.3690	-.2220	.0430	.2250	.3820	-.9650	-.4710	-.2490	-.1410	-.0750	-.0110
120.000	1.2030		.5110	.0050	-.3590	-.2330	.0000	.1520	.2460	-.1930	-.0310	-.0350	-.0990	-.1230	.0010
135.000	1.2030							.1060		-.0080		-.0290		-.1690	
150.000	1.2030		.4900	-.0120	-.3900	-.3790	-.0580	.0810	.1990	.1170	-.0890	-.0320	-.1290	-.2240	.0220
165.000	1.2030			-.0470	-.4060	-.4690	-.0630	.0660	.2180	.2250	-.2020		-.1720		.0070
180.000	1.2030	1.1220	.4400	-.0830	-.4450	-.4930	-.0740	.0550	.2310	.2250	-.2570	-.0940	-.2080	-.2670	-.0200
270.000	1.2030	1.0010													

X/LT	.7449	.8526	.9290
PHI			

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9200
PHI			
.000	-.0410	-.0750	-.2640
30.000	-.0410	-.0750	-.2630
60.000	-.0170	-.0770	-.2630
90.000			-.3030
120.000	.1350	.0140	-.2500
135.000	.1490	.0260	-.2340
150.000	.1450	.0230	-.2350
165.000		-.1010	-.2430
180.000	.0930		

MACH (2) = .901 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2130	1.0570	.3350	-.1720	-.5310	-.6110	-.1080	.0030	.0150	-.1290	-.4000	-.0480	-.0270	-.0180	-.0020
30.000	1.2130		.3620	-.1660	-.5110	-.5660	-.1060	.0150	.0170	-.1930	-.3990	-.0570	-.0290	-.0220	-.0490
60.000	1.2130		.4070	-.1120	-.4660	-.4820	-.0460	.0940	.0970	-.4130	-.4800	-.0720	-.0270	-.0170	-.0180
90.000	1.2130	1.1320	.4440	-.0790	-.4190	-.2290	.0440	.2280	.3900	-.9640	-.4690	-.2380	-.1340	-.0660	-.0150
120.000	1.2130		.4570	-.0490	-.4110	-.3110	.0020	.1570	.2560	-.1730	-.0590	-.0420	-.1130	-.1230	-.0050
135.000	1.2130							.1110		.0050		-.0420		-.1590	
150.000	1.2130		.4630	-.0430	-.4020	-.4400	-.0490	.0020	.2100	.1110	-.2210	-.0390	-.1550	-.2140	.0210
165.000	1.2130			-.0605	-.4300	- 4740	-.0530	.0770	.2280	.2190	-.3680		-.1770		.0290
180.000	1.2130	1.1310	.4480	-.0750	-.4410	-.4880	-.0640	.0750	.2380	.2500	-.4770	-.0390	-.1870	-.1870	.0070
270.000	1.2130	1.0500													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0330	-.0690	-.2630
30.000	-.0330	-.0640	-.2550
60.000	-.0290	-.0660	-.2850
90.000			-.3160
120.000	.1130	-.0310	-.2730
135.000	.1130	-.0350	-.2660
150.000	.1250	-.0660	-.2690
165.000		-.2950	-.2410
180.000	.1140		

AMES 11-FT IA9 IRA + 33 + 79 EXTERNAL TANK (RUN 736)

MACH (2) = .903 BETA (9) = 2.58

SECTION (11EXTERNAL TANK DEPENDENT VARIABLE CP

X/L=	.0000	.0010	.0452	.1098	.1744	.1918	.2121	.2318	.2874	.3412	.3990	.4489	.9028	.9589	.9777
PHI															
.000	1.2148	1.0530	.5241	-.1750	-.5335	-.6127	-.7141	-.7606	-.7127	-.6799	-.6923	-.6783	-.6259	-.6211	-.6153
30.000	1.2159		.5187	-.2048	-.5553	-.6274	-.7180	-.7731	-.7487	-.6855	-.6879	-.6783	-.6259	-.6234	-.6218
60.000	1.2151		.5187	-.1928	-.5314	-.6057	-.7113	-.7678	-.7224	-.6733	-.6813	-.6783	-.6259	-.6234	-.6218
90.000	1.2151	1.0430	.5337	-.1810	-.5179	-.5904	-.6944	-.7228	-.6879	-.6377	-.6445	-.6216	-.6113	-.6134	-.6140
120.000	1.2151		.5387	-.1783	-.4855	-.5504	-.6499	-.6844	-.6528	-.6133	-.6195	-.6049	-.5804	-.5911	-.5997
135.000	1.2151							-.6716		-.5960		-.6024		-.5827	
150.000	1.2151		.4050	-.0990	-.4457	-.4817	-.5844	-.6119	-.5919	-.5444	-.5614	-.5577	-.5221	-.5198	-.5243
165.000	1.2150			-.0685	-.4437	-.4844	-.5843	-.6193	-.5990	-.5434	-.5478		-.5214		-.5240
180.000	1.2150	1.1350	.4450	-.0379	-.4434	-.4834	-.5866	-.6178	-.5986	-.5431	-.5477	-.5414	-.5193	-.5188	-.5243
195.000	1.2150	1.1350													

X/L=	.7449	.8928	.9299
PHI			
.000	-.1029	-.1688	-.2713
30.000	-.1029	-.1688	-.2686
60.000	-.1029	-.1688	-.2686
90.000			-.2686
120.000	.0000	-.1688	-.2686
135.000	.0000	-.1688	-.2686
150.000	.0000	-.1688	-.2686
165.000		-.1688	-.2713
180.000	.0000		

MACH (2) = .903 BETA (9) = 6.15

SECTION (11EXTERNAL TANK DEPENDENT VARIABLE CP

X/L=	.0000	.0010	.0452	.1098	.1744	.1918	.2121	.2318	.2874	.34	.3990	.4489	.9028	.9589	.9777
PHI															
.000	1.2760	1.0610	.5241	-.1858	-.5360	-.6111	-.7110	-.7612	-.7017	-.6678	-.6948	-.6796	-.6259	-.6211	-.6153
30.000	1.2760		.5241	-.2330	-.5553	-.6427	-.7377	-.7731	-.7367	-.6855	-.6844	-.6849	-.6259	-.6234	-.6218
60.000	1.2761		.5241	-.2627	-.5360	-.6111	-.7110	-.7731	-.7367	-.6855	-.6795	-.6796	-.6259	-.6234	-.6218
90.000	1.2760	.9939	.5241	-.2329	-.5358	-.6136	-.7089	-.7228	-.6822	-.6377	-.6377	-.6384	-.6113	-.6134	-.6140
120.000	1.2760		.5241	-.1858	-.5225	-.5904	-.6944	-.7228	-.6822	-.6133	-.6195	-.6049	-.5804	-.5911	-.5997
135.000	1.2760							-.7228		-.6133		-.6049		-.5911	
150.000	1.2760		.3733	-.1331	-.4889	-.5436	-.6443	-.6744	-.6540	-.6133	-.6195	-.6049	-.5804	-.5911	-.5997
165.000	1.2760			-.1331	-.4874	-.5403	-.6443	-.6744	-.6222	-.5776	-.5918		-.5804		-.5997
180.000	1.2760	1.1320	.4622	-.1331	-.4889	-.5436	-.6443	-.6744	-.6222	-.5776	-.5918	-.5849	-.5804	-.5911	-.5997
195.000	1.2760	1.1320													

X/L=	.7449	.8928	.9299
PHI			

MACH (2) = .903 BETAT (6) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.[illegible]	-.0760	-.2800
[illegible]	-.[illegible]	-.[illegible]	-.3400
[illegible]	-.[illegible]	-.[illegible]	-.2950
[illegible]			-.3480
[illegible]	.[illegible]	-.[illegible]	-.3220
[illegible]	[illegible]	-.[illegible]	-.[illegible]
[illegible]	.[illegible]	-.[illegible]	-.[illegible]
[illegible]		-.[illegible]	-.[illegible]
[illegible]	.[illegible]		

MACH (2) = .907 BETAT (7) = 6.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2335	.2874	.3412	.3950	.4489	.5027	.5983	.8372
PHI															
.000	1.1870	1.0210	.3090	-.1930	-.5300	-.6140	-.1320	-.0310	-.0200	-.1800	-.2190	-.0920	-.0890	-.0810	-.0240
30.000	1.1870		.2470	-.2630	-.6000	-.6360	-.0470	.0280	.0560	-.1390	-.3810	-.0580	-.0340	-.0280	-.0240
60.000	1.1870		.2160	-.2920	-.6050	-.2550	-.0030	.1130	.1560	-.3250	-.3800	-.0560	-.0240	-.0210	-.[illegible]
90.000	1.1870	.9270	.2230	-.2770	-.5990	-.1520	.0610	.2220	.4340	-.9920	-.4130	-.1600	-.1010	-.[illegible]	.[illegible]
120.000	1.1870		.2470	-.2400	-.5610	-.2260	.0150	.1590	.2820	-.1130	-.3910	-.0870	-.1890	-.[illegible]	-.[illegible]
135.000	1.1870							.1100		.0160		-.[illegible]		-.[illegible]	
150.000	1.1870		.3240	-.1740	-.5220	-.5060	-.0570	.0740	.2080	.0640	-.6710	-.[illegible]	-.2940	-.[illegible]	-.0240
165.000	1.1870			-.1370	-.4860	-.4930	-.0800	.0530	.2090	.1480	-.7370		-.2070		-.0[illegible]
180.000	1.1870	1.1060	.4200	-.0940	-.4500	-.4570	-.0960	.0470	.2120	.2500	-.7260	-.1430	-.2810	-.3790	-.[illegible]
270.000	1.1870	1.1960													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0690	-.0900	-.2930
30.000	-.0410	-.0740	-.3200
60.000	-.0250	-.0830	-.3000
90.000			-.3580
120.000	.0530	-.1060	-.3120
135.000	.0390	-.1080	-.2720
150.000	.0360	-.1810	-.2170
165.000		-.3140	-.2440
180.000	.0560		

AMES 11-707 IA9 CBA + S3 + T9 EXTERNAL TANK (RBNTD8)

MACH (2) = .904 BETAT (8) = 8.230

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1600	.9890	2880	-.2110	-.5550	-.6220	-.1830	-.0560	-.0900	-.1860	-.2120	-.1190	-.0780	-.0700	-.0480
30.000	1.1600		.2040	-.2870	-.6230	-.6760	-.0930	.0160	.0540	-.1410	-.4340	-.0720	-.0410	-.0340	-.0430
60.000	1.1600		.1660	-.3230	-.6360	-.2080	-.0130	.0920	.1620	-.3110	-.3650	-.0380	-.0260	-.0250	-.0200
90.000	1.1600	.8630	.1730	-.3220	-.6260	-.1430	.0480	.2060	.4460	-.9140	-.5050	-.1310	-.0970	-.0500	-.0010
120.000	1.1600		.1970	-.2870	-.5990	-.2240	.0110	.1510	.2820	-.1060	-.4880	-.0880	-.1960	-.1120	-.0250
135.000	1.1600							.1020		.0130		-.1150		-.1300	
150.000	1.1600		.2810	-.2090	-.5530	-.5690	-.0670	.0620	.1950	.0420	-.6960	-.1670	-.3230	-.2290	-.0310
165.000	1.1600			-.1640	-.5090	-.5470	-.0960	.0330	.1890	.1220	-.6260		-.3460		-.1230
180.000	1.1600	1.0840	.3980	-.1100	-.4450	-.4850	-.1200	.0220	.1900	.2090	-.4960	-.1990	-.2990	-.4130	-.1440
270.000	1.1600	1.2080													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0910	-.1050	-.3090
30.000	-.0380	-.0750	-.3220
60.000	-.0350	-.0910	-.3130
90.000			-.3650
120.000	.0500	-.1210	-.3020
135.000	.0430	-.0900	-.2300
150.000	.0660	-.2230	-.2390
165.000		-.3140	-.2540
180.000	.0120		

MACH (3) = 1.099 BETAT (1) = -8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2850	1.1470	.4880	.0350	-.3030	-.3750	-.4610	-.4020	.0770	.0570	-.1480	-.3110	-.1280	-.0850	-.0200
30.000	1.2850		.5880	.1150	-.2360	-.3140	-.4060	-.3350	.0870	-.0550	-.3320	-.1060	-.0660	-.0850	-.1000
60.000	1.2850		.6940	.2110	-.1520	-.2340	-.3370	.0390	.2150	-.1680	-.4720	-.0580	.0290	-.0120	-.0590
90.000	1.2850	1.3240	.7610	.2730	-.1080	-.1930	-.2940	.2890	.5230	-.5220	-.4610	-.3670	-.4070	-.2000	-.1090
120.000	1.2850		.7520	.2710	-.1110	-.1920	-.2890	.0310	.3830	.0190	-.2730	.1820	.1230	.0250	-.1730
135.000	1.2850							-.1800		.1810		.1850		.0050	
150.000	1.2850		.6830	.2090	-.1630	-.2430	-.3340	-.2860	.3210	.3220	-.1020	.1410	.1040	-.0690	-.1920
165.000	1.2850			.1550	-.2080	-.2770	-.3700	-.3240	.3290	.4320	-.1170		.0280		-.2710
180.000	1.2850	1.2090	.5760	.1010	-.2420	-.3170	-.4080	-.3550	.3190	.4400	-.1430	-.1130	-.0470	-.2280	-.4060
270.000	1.2850	1.0260													

X/LT	.7449	.8528	.9290
PHI			

DATE 24 SEP 79 TABULATED PRESSURE DATA - 1A9A

AMES 11-7?? 1A9 OEA + S3 + T9 EXTERNAL TANK (RUN?08)

MACH (3) = 1.099 BETAT (1) = -8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0930	-.0460	-.0780
30.000	-.0760	-.0240	-.0810
60.000	-.0250	.0150	-.0160
90.000			-.1090
120.000	.1890	.2430	.0750
139.000	.1890	.2890	.0540
150.000	.2130	.3300	.0460
165.000		.3020	.0470
180.000	.0380		

MACH (3) = 1.150 BETAT (2) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2356	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3070	1.1730	.5010	.0430	-.2880	-.3640	-.4500	-.3940	.1040	.0970	-.1120	-.3210	-.1100	-.0180	-.0010
30.000	1.3070		.5780	.0860	-.2440	-.3190	-.4180	-.3500	.1180	.0000	-.2490	-.1190	-.0660	-.0550	-.0580
60.000	1.3070		.6560	.1740	-.1800	-.2630	-.3640	-.0350	.2580	-.1500	-.4660	-.0590	.0180	-.0190	-.0440
90.000	1.3070	1.3090	.7190	.2260	-.1420	-.2310	-.3340	.1830	.3280	-.3190	-.4660	-.3050	-.3770	-.1990	-.1980
120.000	1.3070		.7090	.2320	-.1400	-.2230	-.3200	-.0710	.4060	.0580	-.2770	.1770	.0990	-.0010	-.1970
135.000	1.3070							-.2480		.2120		.1870		-.0110	
150.000	1.3070		.6640	.1910	-.1770	-.2560	-.3480	-.3030	.3510	.3400	-.1290	.1710	.0930	-.0760	-.2070
165.000	1.3070			.1550	-.2080	-.2820	-.3720	-.3200	.3480	.4380	-.1440		.0360		-.2850
180.000	1.3070	1.2280	.3880	.1150	-.2330	-.3130	-.3990	-.3170	.3330	.4560	-.1450	.0670	-.0100	-.1790	-.3370
270.000	1.3070	1.0830													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0810	-.0270	-.0710
30.000	-.0820	-.0170	-.0760
60.000	-.0320	-.0120	-.0470
90.000			-.1150
120.000	.1580	.2000	.0220
139.000	.1820	.2410	.0440
150.000	.2040	.2690	.0390
165.000		.1910	.0180
180.000	.1120		

AMES 11-79? IAS OEA • 93 • T9 EXTERNAL TANK (R@WTOB)

MACH (3) = 1.170 BETAT (3) = -4.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3250	1.1830	.5100	.0490	-.2870	-.3800	-.4500	-.3850	.1780	.1210	-.0870	-.3190	-.0880	.0290	.0220
30.000	1.3250		.5590	.0740	-.2600	-.3310	-.4330	-.353	.2140	.2470	-.2420	-.1410	-.0750	-.0320	-.0460
60.000	1.3250		.6170	.1370	-.2130	-.2920	-.3910	-.1750	.2580	-.1290	-.4870	-.0490	.0050	-.0180	-.0530
90.000	1.3250	1.2830	.6810	.1800	-.1820	-.2630	-.3670	-.0850	.5300	-.5180	-.4490	-.2170	-.2880	-.1910	-.0980
120.000	1.3250		.6680	.1020	-.1730	-.2550	-.3490	-.1580	.4330	.1810	-.2780	.1810	.0890	-.0140	-.2270
135.000	1.3250							-.2590		.2430		.1540		-.0910	
150.000	1.3250		.6490	.1760	-.1940	-.2730	-.3630	-.3130	.5480	.3580	-.1690	.1840	.0840	-.0780	-.2190
165.000	1.3250			.1500	-.2070	-.2840	-.3780	-.3250	.5690	.4490	-.2460		.0500		-.2800
180.000	1.3250	1.2470	.6010	.1230	-.2220	-.3050	-.3910	-.2170	.5210	.4720	-.2980	.1130	.0340	-.1590	-.3080
270.000	1.3250	1.1570													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0750	-.0240	-.0670
30.000	-.0560	-.0200	-.0720
60.000	-.0360	-.0290	-.0690
90.000			-.1340
120.000	.1550	.1590	-.0760
135.000	.1740	.1830	-.0490
150.000	.1490	.1850	-.0850
165.000		.0910	-.1340
180.000	.1440		

MACH (3) = 1.099 BETAT (4) = -2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3330	1.1890	.5140	.0500	-.2850	-.3800	-.4480	-.3820	.1180	.1520	-.0770	-.3100	-.0920	.0490	.0290
30.000	1.3330		.5620	.0850	-.2740	-.3640	-.4580	-.3690	.1210	.0880	-.1900	-.1650	-.0920	.0280	-.0410
60.000	1.3330		.5780	.1320	-.2430	-.3220	-.4140	-.1450	.2840	-.1070	-.4540	-.0360	.0090	-.0580	-.0890
90.000	1.3330	1.2540	.6110	.1310	-.2270	-.3070	-.3980	-.0480	.5380	-.5150	-.4030	-.1650	-.2410	-.2750	-.1070
120.000	1.3330		.6230	.1320	-.2060	-.2870	-.3770	-.0120	.4930	.1060	-.2710	.1590	.0780	-.0930	-.2320
135.000	1.3330							-.1750		.2660		.1620		-.0820	
150.000	1.3330		.6250	.1520	-.2130	-.2880	-.3810	-.2940	.5090	.3550	-.1910	.1700	.0750	-.0940	-.2910
165.000	1.3330			.1470	-.2180	-.2940	-.3840	-.1860	.2840	.4480	-.2250		.0850		-.2520
180.000	1.3330	1.2550	.6080	.1230	-.2280	-.3020	-.3960	-.0370	.2410	.4960	-.2660	.1480	.0580	-.1230	-.2830
270.000	1.3330	1.1820													

X/LT	.7449	.8528	.9290
PHI			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-FT IA9 CRA + S3 + T9 EXTERNAL TANK (9[illegible]710)

MACH (3) = 1.099 BETAT (4) = -2.590

SECTION : 1:EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8928	.9290
PHI			
.000	-.0753	-.0724	-.0599
30.000	-.0760	-.0724	-.0800
60.000	-.0744	-.0735	-.1340
90.000			-.1835
120.000	.1470	.1170	-.1550
150.000	.1360	.[illegible]	-.1110
180.000	.1[illegible]	-.[illegible]	-.1140
185.000		-.[illegible]	-.1910
190.000	.1670		

MACH [illegible] = 1.[illegible] BETAT (5) = 2.[illegible]

SECTION : 1:EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.[illegible]	.[illegible]	.5452	.[illegible]	.5744	.[illegible]	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3330	1.1850	.5140	.[illegible]	-.[illegible]	-.[illegible]	-.6490	-.[illegible]	.[illegible]	.1310	-.0750	-.[illegible]	-.0580	.0[illegible]	.0[illegible]
30.000	1.3330		.4980	.[illegible]	-.[illegible]	-.[illegible]	-.6660	-.2490	.[illegible]	.1190	-.1650	-.2440	-.[illegible]	.0[illegible]	-.0[illegible]
60.000	1.3330		.4980	.[illegible]	-.[illegible]	-.[illegible]	-.6430	-.[illegible]	.[illegible]	-.0[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	-.[illegible]
90.000	1.3330	1.1870	.5140	.0[illegible]	-.2[illegible]	-.[illegible]	-.4530	.[illegible]	.5740	-.[illegible]	-.[illegible]	-.[illegible]	-.2[illegible]	-.2[illegible]	-.[illegible]
120.000	1.3330		.5330	.[illegible]	-.2[illegible]	-.[illegible]	-.4[illegible]	.[illegible]	.0570	.1690	-.2550	.0740	.[illegible]	-.2190	-.2[illegible]
135.000	1.3330							.[illegible]		.2810		.[illegible]		-.[illegible]	
150.000	1.3330		.5790	.[illegible]	-.2[illegible]	-.[illegible]	-.4[illegible]	.[illegible]	.2[illegible]	.2990	-.2520	.[illegible]	.0[illegible]	-.[illegible]	-.2[illegible]
165.000	1.3330			.[illegible]	-.2[illegible]	-.[illegible]	-.4[illegible]	.[illegible]	.2[illegible]	.4[illegible]	-.28[illegible]		.0[illegible]		-.[illegible]
180.000	1.3330	1.2970	.6[illegible]	.1[illegible]	-.2[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.4940	-.2880	.1150	.0[illegible]	-.1[illegible]	-.2[illegible]
270.000	1.3330	1.2980													

X/LT	.7449	.8529	.9290
PHI			
.000	-.0720	-.0270	-.0970
30.000	-.0720	-.0190	-.0800
60.000	-.0430	-.0280	-.0970
90.000			-.1920
120.000	.1240	.0220	-.1310
150.000	.1250	.0050	-.1680
180.000	.1370	-.0480	-.1910
189.000		-.2110	-.2180
190.000	.1830		

AMES 11-FOOT IA9 CRA • 33 • 79 EXTERNAL TANK (RUN706)

MACH (3) = 1.150 BETAY (0) = 4.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1798	.1744	.1905	[illegible]	.2516	.2874	.3412	.3993	.4489	.5027	.5583	.6372
PHI															
.000	1.3290	1.1720	.9070	.5470	-.2440	-.3810	-.4490	-.3910	.1040	.1100	-.0890	-.9130	-.0990	.0190	.0250
30.000	1.3290		.4850	.0090	-.3190	-.3680	-.4770	-.2850	.0080	.0540	-.1550	-.2450	-.0910	.0090	-.0420
60.000	1.3290		.4520	-.0100	-.3290	-.3890	-.4740	-.3420	.1140	-.0130	-.4820	-.6490	-.0780	.0000	-.0470
90.000	1.3290	1.1280	.4650	-.0050	-.3190	-.3920	-.4460	-.0230	.3810	-.4950	-.5510	-.7280	-.2870	-.2470	-.1320
120.000	1.3290		.4060	.0290	-.3090	-.3770	-.3660	.0160	.1610	.1950	-.1470	.7240	.0100	-.1410	-.3080
135.000	1.3290							.0310		.2240		.0340		-.1840	
150.000	1.3290		.5480	.0860	-.2980	-.3490	-.2610	.0140	.1810	.2980	-.2480	.0570	-.0060	-.2990	-.3270
165.000	1.3290			.1020	-.2470	-.3260	-.4090	-.0110	.2280	.4720	-.3290		.0120		-.3520
180.000	1.3290	1.2530	.6080	.1240	-.2280	-.3050	-.3950	-.2090	.2850	.4860	-.3320	.5040	.0390	-.1920	-.3030
270.000	1.3290	1.2880													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0800	-.0180	-.0830
30.000	-.0920	-.0000	-.0850
60.000	-.0320	-.0190	-.0600
90.000			-.1820
120.000	.1110	-.0170	-.1820
135.000	.1120	-.0800	-.1800
150.000	.1230	-.0720	-.1930
165.000		-.2290	-.1990
180.000	.1440		

MACH (3) = 1.100 BETAY (7) = 0.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3990	.4489	.5027	.5585	.6372
PHI															
.000	1.3070	1.1580	.4970	.0400	-.2980	-.3660	-.4330	-.3930	.0940	.0880	-.1150	-.9130	-.1190	-.0290	-.0080
30.000	1.3070		.4380	-.0180	-.3390	-.4010	-.4810	-.0990	.0890	.0080	-.1880	-.2810	-.1190	-.0930	-.0410
60.000	1.3070		.4100	-.0480	-.3470	-.4130	-.2850	-.0320	.0600	.0210	-.4290	-.6180	-.0660	-.0990	-.0390
90.000	1.3070	1.0720	.4190	-.0440	-.3440	-.4140	-.0780	-.0410	.3500	-.4740	-.2880	-.0290	-.2790	-.2210	-.1480
120.000	1.3070		.4380	-.0120	-.3270	-.3980	-.0130	-.0020	.1280	.1790	-.1250	-.0130	-.0920	-.1870	-.3440
135.000	1.3070							.0080		.2990		.0380		-.1980	
150.000	1.3070		.5040	.0480	-.2880	-.3630	-.1520	-.0130	.1710	.2825	-.2840	.0490	-.0980	-.2881	-.3890
165.000	1.3070			.0670	-.2800	-.3420	-.4210	-.0450	.2450	.3810	-.3940		-.0330		-.4280
180.000	1.3070	1.2310	.3880	.1130	-.2330	-.3120	-.4040	-.3150	.3140	.4580	-.3940	.5010	.0440	-.1970	-.3910
270.000	1.3070	1.3130													

X/LT	.7449	.8328	.9290
PHI			

AMES 11-FOOT 149 OPA • 53 • 79 EXTERNAL TANK -4B47D8-

MACH = 3.500 BETAT (71) = 0.191

SECTION 1 11EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8928	.9290
PHI			
.000	-.0780	-.0230	-.0870
30.000	-.0380	-.0070	-.0260
60.000	-.0050	-.0100	-.0780
90.000			-.1680
120.000	.0340	-.0170	-.1850
135.000	.0260	-.0320	-.2000
150.000	.0780	-.1130	-.2180
165.000		-.2750	-.2390
180.000	.0190		

MACH = 3.500 BETAT (0) = 0.250

SECTION 11EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0004	.0452	.1000	.1744	.2500	.2121	.2558	.2878	.3412	.3997	.4828	.9007	.9465	.0372
PHI															
.000	1.2840	1.1320	.4780	.0340	-.1340	-.3750	-.4590	-.4840	.0490	.0580	-.1680	-.2780	-.1390	-.0790	-.0370
30.000	1.2840		.4030	-.0440	-.1900	-.4120	-.3920	-.3740	.0460	.0390	-.1480	-.2580	-.0980	-.0180	-.0490
60.000	1.2840		.3680	-.0780	-.2710	-.4340	-.1380	-.0660	.2910	.0560	-.1790	-.1820	-.1030	-.0230	-.0990
90.000	1.2840	1.0170	.3710	-.0790	-.2790	-.4150	-.0690	-.0990	.3490	-.4480	-.4210	-.0790	-.2390	-.2290	-.1680
120.000	1.2840		.3990	-.0470	-.2580	-.4230	-.0240	-.0280	.1140	.1760	-.1520	-.0910	-.0280	-.1870	-.3780
135.000	1.2840							-.0550		.2870		.0940		-.2540	
150.000	1.2840		.4680	.0210	-.2540	-.3910	-.3940	-.0660	.1450	.2460	-.3190	.0820	-.1060	-.3120	-.4910
165.000	1.2840			.0580	-.2840	-.3350	-.4540	-.1810	.2710	.3230	-.4260		-.0900		-.5310
180.000	1.2840	1.2090	.5760	.1990	-.2430	-.3190	-.4160	-.5820	.3180	.4370	-.4250	-.1760	-.0390	-.2470	-.4260
270.000	1.2840	1.3250													

X/LT	.7449	.8928	.9290
PHI			
.000	-.0870	-.0330	-.0870
30.000	-.0570	.0010	-.1380
60.000	-.0300	-.0140	-.0990
90.000			-.1780
120.000	.0570	-.0330	-.2140
135.000	.0240	-.0330	-.2290
150.000	.0120	-.2250	-.2420
165.000		-.2820	-.2490
180.000	.0120		

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA94

AMES 11-FOOT IA9 CRA + 33 + 79 EXTERNAL TANK (RUNTOO)

MACH (4) = 1.248 BETAT (2) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1090	.1744	.1905	.2121	.2536	.2874	.3412	.3990	.4489	.5027	.5585	.6372
PHI															
.000	1.3825	1.2240	.5415	.0975	-.2050	-.2710	-.3550	-.3190	-.1790	.1090	-.0245	-.2190	-.1680	-.1180	-.0490
30.000	1.3825		.6490	.1950	-.1580	-.2080	-.3010	-.2810	.0080	-.0490	-.2280	-.2590	-.0485	-.0720	-.1040
60.000	1.3825		.7910	.2880	-.0990	-.1390	-.2370	-.1920	.2440	-.0470	-.3180	-.1240	.0170	.0120	-.0290
90.000	1.3825	1.4010	.8220	.3490	-.0100	-.1030	-.1920	-.1100	.3590	-.3230	-.6490	-.2070	-.3070	-.3740	-.1250
120.000	1.3825		.8120	.3450	-.0160	-.1010	-.1920	-.1350	.3570	.1010	-.2210	.1730	.2170	.1930	-.0480
135.000	1.3825							-.1760		.2490		.1230		.0950	
150.000	1.3825		.7390	.2690	-.0710	-.1530	-.2490	-.2050	.1310	.4110	.0480	-.0510	.1970	.0825	-.0880
165.000	1.3825			.2280	-.1100	-.1690	-.2720	-.2370	.1900	.5430	.0410		.0520		-.1400
180.000	1.3825	1.2800	.6290	.1780	-.1500	-.2260	-.3070	-.2670	.2280	.5491	.0260	-.2710	-.0180	-.0190	-.2780
270.000	1.3825	1.0890													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0430	-.0440	-.0910
30.000	-.0440	-.0850	-.0120
60.000	-.0340	-.0340	-.0690
90.000			-.2070
120.000	.0825	.3260	.0800
135.000	.0080	.3780	.0950
150.000	-.0740	.4180	.0890
165.000		.4320	.0990
180.000	-.3720		

MACH (4) = 1.248 BETAT (2) = -8.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1088	.1744	.1906	.2121	.2536	.2874	.3412	.3990	.4489	.5027	.5589	.6372
PHI															
.000	1.3870	1.2440	.5570	.1110	-.1970	-.2680	-.3480	-.3080	-.2020	.1470	.0030	-.1970	-.1980	-.0880	-.0100
30.000	1.3870		.6340	.1800	-.1470	-.2190	-.3180	-.2870	.0190	-.0070	-.2510	-.2690	-.0490	-.0840	-.0730
60.000	1.3870		.7180	.2530	-.0880	-.1870	-.2600	-.2200	.2630	-.0370	-.3150	-.0980	.0270	.0160	-.0320
90.000	1.3870	1.3870	.7720	.3010	-.0490	-.1380	-.2250	-.1560	.3560	-.3240	-.6910	-.2730	-.3770	-.3240	-.1380
120.000	1.3870		.7890	.3030	-.0480	-.1330	-.2200	-.1670	.3690	.1360	-.2050	.1180	.1480	.1090	-.0090
135.000	1.3870							-.1980		.2860		.0490		.1240	
150.000	1.3870		.7230	.2820	-.0840	-.1670	-.2520	-.2150	.2220	.4550	.0290	-.0820	.1920	.0920	-.0980
165.000	1.3870			.2290	-.1130	-.1920	-.2790	-.2360	.2580	.5270	.0080		.0490		-.1500
180.000	1.3870	1.3030	.6420	.1820	-.1430	-.2140	-.3000	-.2560	.2490	.5510	.0260	-.2180	.0490	.0020	-.2310
270.000	1.3870	1.1490													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-FOOT DAS CRA + 53 + 79 EXTERNAL TANK (RUN 798)

MACH (4) = 1.248 BETAT (2) = -4.113

SECTION (5)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8328	.9290
PHI			
.000	-.0380	-.0480	-.0220
30.000	-.0390	-.0340	-.0150
60.000	-.0210	-.0210	-.0480
90.000			-.1400
120.000	.0250	.2870	.0190
135.000	-.0980	.3310	.0510
150.000	-.0910	.2810	.0510
165.000		.2070	.0840
180.000	-.3190		

MACH (4) = 1.248 BETAT (3) = -4.070

SECTION (5)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1903	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4010	1.2550	.5680	.1180	-.1860	-.2560	-.3390	-.2980	-.2020	.1660	.0230	-.1850	-.2280	-.0390	.0180
30.000	1.4010		.6170	.1670	-.1540	-.2250	-.3160	-.2740	.0270	.0630	-.1030	-.2420	-.0520	-.0710	-.0470
60.000	1.4010		.6790	.2180	-.1150	-.1940	-.2840	-.2420	.2180	-.0280	-.4990	-.0790	.0510	-.0150	-.0580
90.000	1.4010	1.3880	.7240	.2570	-.0840	-.1710	-.2550	-.1930	.3570	-.3160	-.8850	-.3290	-.1310	-.3230	-.1620
120.000	1.4010		.7500	.2690	-.0780	-.1690	-.2460	-.2030	.3840	.1760	-.1870	.0460	.1190	.0890	-.1550
135.000	1.4010							-.2150		.3345		-.0930		.1220	
150.000	1.4010		.7090	.2480	-.0950	-.1780	-.2590	-.2220	.2870	.4550	.0050	-.1110	.1240	.0850	-.1220
165.000	1.4010			.2220	-.1120	-.1920	-.2700	-.2310	.2710	.9250	-.0200		.0490		-.1570
180.000	1.4010	1.3200	.6590	.1960	-.1310	-.2090	-.2860	-.2450	.2300	.5420	-.0220	-.1700	-.0150	.0070	-.1890
270.000	1.4010	1.2020													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0230	-.0370	-.0420
30.000	-.0240	-.0240	-.0150
60.000	-.0230	-.0290	-.0360
90.000			-.1130
120.000	-.0040	.2380	-.0210
135.000	-.0880	.2870	.0040
150.000	-.1080	.2870	.0040
165.000		.1520	.0610
180.000	-.2520		

AMES 11-79? IA9 ORA + 33 + 79 EXTERNAL TANK (RUN?38)

MACH (4) = 1.248 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4130	1.2820	.5740	.1210	-.1860	-.2540	-.3380	-.2910	-.1570	.1690	.0490	-.1720	-.2280	-.0490	.0180
30.000	1.4130		.6080	.1500	-.1700	-.2400	-.3290	-.2850	.0440	.0900	-.0550	-.2540	-.0800	-.0890	-.0330
60.000	1.4130		.6390	.1800	-.1430	-.2200	-.3060	-.2640	.1840	-.0110	-.4710	-.0640	.0270	-.0320	-.0920
90.000	1.4130	1.3350	.6750	.2170	-.1180	-.2140	-.2850	-.2350	.5590	-.3080	-.8270	-.3570	.0170	-.2830	-.1610
120.000	1.4130		.6860	.2270	-.1050	-.1890	-.2710	-.2370	.3420	.2090	-.1740	-.0970	.1120	.0490	-.1070
135.000	1.4130							-.2400		.3740		-.0490		.0820	
150.000	1.4130		.6860	.2280	-.1170	-.1930	-.2690	-.2390	.2670	.4570	-.0120	-.0910	.0880	.0820	-.1560
165.000	1.4130			.2170	-.1190	-.1960	-.2770	-.2400	.1990	.5570	-.0810		.0090		-.1560
180.000	1.4130	1.3320	.6860	.1980	-.1290	-.2060	-.2890	-.2900	.1580	.5830	-.0960	-.1160	-.0540	.0370	-.1560
270.000	1.4130	1.2930													

X/L?	.7449	.8528	.9290
PHI			
.000	-.0810	-.0560	-.0880
30.000	-.0150	-.0890	-.0110
60.000	-.0140	-.0110	-.0290
90.000			-.0830
120.000	-.0140	.1080	-.0920
135.000	-.1110	.2030	-.0840
150.000	-.1290	.1980	-.0910
165.000		.0810	-.0490
180.000	-.1990		

MACH (4) = 1.248 BETAT (5) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4140	1.2970	.5710	.1220	-.1870	-.2530	-.3370	-.2920	-.1240	.1870	.0910	-.1750	-.2270	-.0320	.0190
30.000	1.4140		.5920	.1030	-.2020	-.2640	-.3510	-.3040	.0490	.0980	.0920	-.2190	-.1170	-.0790	-.0270
60.000	1.4140		.5930	.1210	-.1970	-.2700	-.3480	-.3220	.0980	.0320	-.0220	-.0940	-.0930	-.0640	-.0320
90.000	1.4140	1.2910	.5710	.1180	-.1880	-.2660	-.3360	-.2870	.2640	-.3040	-.3990	-.3830	-.1480	-.2100	-.1150
120.000	1.4140		.5940	.1490	-.1870	-.2480	-.3220	-.2870	.1390	.2350	-.1360	-.0190	.0420	.0190	-.1090
135.000	1.4140							-.2780		.2790		-.0320		.0320	
150.000	1.4140		.6350	.1830	-.1440	-.2240	-.3030	-.2820	.1590	.3270	-.0390	-.1140	-.0190	-.0190	-.1090
165.000	1.4140			.1940	-.1320	-.2120	-.2910	-.2930	.1920	.3590	-.0490		-.0190		-.1090
180.000	1.4140	1.3390	.6740	.2020	-.1250	-.2010	-.2900	-.2820	.2160	.4030	-.0940	-.1140	.0140	.0190	-.1150
270.000	1.4140	1.3340													

X/L?	.7449	.8528	.9290
PHI			

[illegible]

[illegible]

[illegible]

AMES 11-FT 1A9 (RA = 33 = 79 EXTERNAL TANK (BOATTAIL)

MACH = .8) = 1.269 BETAT = 2) = 0.180

SECTION = 1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L*	.0000	.0000	.3432	.1788	.1744	.1935	.2121	.2358	.2874	.3412	.3990	.4489	.5057	.5585	.6172
PHI															
.000	1.3600	1.2310	.3555	.1111	-.1960	-.2810	-.3480	-.3990	-.1660	.1360	.0170	-.1900	-.1890	-.0890	-.0180
30.000	1.3600		.4025	.0590	-.2170	-.2790	-.3780	-.334	.0430	.1120	-.0380	+.2930	-.1700	-.0880	-.0340
60.000	1.3600		.4820	.0320	-.2460	-.3170	-.3830	-.3410	.0730	.1090	.1460	-.0460	-.0840	-.0890	-.0170
90.000	1.3600	1.1390	.4790	.0330	-.2470	-.3170	-.3860	-.1180	.3430	-.2360	-.3150	-.0.40	-.0190	+.2810	-.1290
120.000	1.3600		.4320	.0830	-.2930	-.3.10	-.3720	-.0910	.0480	.3130	-.3980	+.1330	-.0.90	-.0190	+.2820
135.000	1.3600							-.2360		.0190		-.1370		-.0810	
150.000	1.3600														
150.000	1.3600		.3390	.1290	-.1990	-.2880	-.3620	-.2340	.1310	.3.40	-.1210	+.2190	.0560	-.0860	-.2810
165.000	1.3600			.1530	-.1650	-.2460	-.3210	-.2910	.1870	.4620	-.2190		.1290		-.3.40
180.000	1.3600	1.3090	.8490	.1390	-.1810	-.2180	-.3020	-.2990	.2190	.3360	-.2130	-.2.10	.0620	.0080	-.2490
270.000	1.3600	1.3600													

X/L*	.9449	.0326	.9290
PHI			
.000	-.0.70	-.0.90	+.0890
30.000	-.0.60	-.0.20	+.0330
60.000	-.0.10	.0120	+.0980
90.000			+.0.00
120.000	-.0.130	.0.90	+.0.00
135.000	-.0.290	.0.60	+.0.80
150.000	-.0.410	.0.20	+.0.80
165.000		-.0.30	+.0.10
180.000	-.0.330		

MACH .8) = 1.268 BETAT (0) = 0.200

SECTION = 1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L*	.0000	.0000	.3432	.1388	.1744	.1935	.2121	.2358	.2874	.3412	.3990	.4489	.5057	.5585	.6172
PHI															
.000	1.3680	1.2740	.3330	.0980	-.2030	-.2.80	-.3930	-.3190	-.1720	.0810	-.0.30	-.2180	-.1970	-.1130	-.0680
30.000	1.3680		.4130	.0740	-.2580	-.3190	-.3890	-.3320	.0210	.1090	-.0.30	-.2280	-.1970	-.0880	-.0330
60.000	1.3680		.4220	-.0070	-.2730	-.3330	-.4010	-.2450	-.0180	.1360	-.0.80	-.1.60	-.1.40	-.0830	-.0130
90.000	1.3680	1.2800	.4240	-.0030	-.2780	-.3410	-.4030	-.0.20	.4190	.2840	-.2890	-.0.80	-.1.60	-.2210	-.1130
120.000	1.3680		.4430	.0220	-.2840	-.3280	-.3990	-.0930	.0190	.2480	-.0.40	-.1.70	-.1.80	-.1.70	-.2810
135.000	1.3680							-.1690		.3310		-.1.60		-.0.90	
150.000	1.3680		.3290	.0960	-.2190	-.2920	-.3810	-.3130	.1630	.3440	-.1810	-.2.30	.0.40	-.1.10	-.3410
165.000	1.3680			.1300	-.1880	-.2630	-.3.30	-.3.40	.1180	.4230	-.2.90		.1.80		-.4.30
180.000	1.3680	1.2890	.8310	.1790	-.1530	-.2260	-.3010	-.2660	.2230	.3.90	-.2.60	-.2.1	.1.40	-.0.40	-.2.80
270.000	1.3680	1.3680													

X/L*	.9449	.0326	.9290

PHI

AMES 11-707 IA9 ORA + 33 + 79 EXTERNAL TANK (RBNTO7) (27 APR 93)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.9300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .300
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .597 BETAT (1) = -8.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0200	.9030	.2140	-.2060	-.3630	-.3500	-.2640	-.1630	-.1150	-.1150	-.1110	-.1080	-.0940	-.0950	-.0700
30.000	1.0200		.3360	-.1170	-.3060	-.3040	-.2240	-.1320	-.1250	-.1360	-.1110	-.0960	-.0810	-.0730	-.0640
60.000	1.0200		.4310	-.0010	-.1940	-.1870	-.1070	-.0180	-.0670	-.2880	-.1080	-.0570	-.0410	-.0310	-.0280
90.000	1.0200	1.0870	.5060	.0520	-.1270	-.1080	.0080	.1340	.2020	-.9820	-.1090	-.0580	-.0530	-.0460	-.0290
120.000	1.0200		.4690	.0250	-.1670	-.1540	-.0520	.0450	.0500	-.1400	-.0250	-.0050	-.0090	.0050	.0140
135.000	1.0200							-.0110		-.0060		-.0010		-.0070	
150.000	1.0200		.3610	-.0580	-.2460	-.2300	-.1350	-.0430	.0460	.0630	-.0250	-.0270	-.0360	-.0480	-.0640
165.000	1.0200			-.1290	-.2830	-.2670	-.1580	-.0650	.0560	.0970	-.0290		-.1490		-.0800
180.000	1.0200	.9020	.2350	-.1860	-.3160	-.2920	-.1810	-.0710	.0500	.0490	-.0670	-.2110	-.2310	-.2170	-.1680
270.000	1.0200	.7070													

X/LT	.7449	.8526	.9290
PHI			
.000	-.1060	-.1380	-.3570
30.000	-.1570	-.1260	-.3970
60.000	-.0520	-.1175	-.3960
90.000			-.5620
120.000	.1130	-.0300	-.5170
135.000	.1130	-.0100	-.5320
150.000	.1100	.0130	-.5520
165.000		-.0260	-.4720
180.000	-.0700		

MACH (1) = .596 BETAT (2) = -6.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0520	.9380	.2390	-.1910	-.3600	-.3410	-.2400	-.1410	-.0940	-.0990	-.0920	-.0880	-.0740	-.0710	-.0480
30.000	1.0520		.3300	-.1480	-.3150	-.3000	-.2150	-.1140	-.1040	-.1200	-.0900	-.0800	-.0850	-.0840	-.0710
60.000	1.0520		.4120	-.0410	-.2200	-.2000	-.1140	-.0170	-.0590	-.2840	-.0910	-.0800	-.0450	-.0390	-.0280
90.000	1.0520	1.0720	.4500	-.0010	-.1650	-.1350	-.0100	.1250	.2030	-1.0370	-.0930	-.0730	-.0810	-.0570	-.0310
120.000	1.0520		.4180	-.0180	-.1930	-.1740	-.0510	.0380	.0530	-.1540	-.0430	-.0300	-.0300	-.0130	-.0030
135.000	1.0520							-.0090		-.0130		-.0210		-.0220	
150.000	1.0520		.3450	-.0850	-.2500	-.2270	-.1300	-.0330	.0550	.0560	-.0110	-.0330	-.0810	-.0500	-.0030

AMES 11-707 IA9 C2A + S5 + T9 EXTERNAL TANK (RBMT07)

MACH (1) = .598 BETAT (2) = -6.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
135.000	1.0520			-.1310	-.2810	-.2580	-.1450	-.0470	.0770	.1020	-.0970		-.1200		-.0470
180.000	1.0520	.9320	.2500	-.1690	-.3040	-.2750	-.1530	-.0540	.0780	.0760	-.0970	-.1580	-.1720	-.1550	-.1090
270.000	1.0520	.7650													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0780	-.1130	-.3340
30.000	-.0810	-.1050	-.3610
60.000	-.0500	-.1130	-.3760
90.000			-.5120
120.000	.0870	-.0530	-.4960
135.000	.0970	-.0390	-.5080
150.000	.0990	-.0220	-.5090
165.000		-.0680	-.4110
180.000	-.0220		

MACH (1) = .598 BETAT (3) = -4.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0780	.9560	.2510	-.1810	-.3410	-.3220	-.2230	-.1220	-.0740	-.0830	-.0730	-.0660	-.0570	-.0520	-.0280
30.000	1.0780		.3130	-.1530	-.3120	-.2970	-.2030	-.1010	-.0810	-.1050	-.0720	-.0690	-.0550	-.0460	-.0540
60.000	1.0780		.3700	-.0780	-.2390	-.2110	-.1160	-.0160	-.0420	-.2800	-.1070	-.0830	-.0460	-.0400	-.0290
90.000	1.0780	1.0510	.3980	-.0490	-.1900	-.1520	-.0200	.1180	.2070	-1.0580	-.1380	-.0800	-.0650	-.0800	-.0300
120.000	1.0780		.3780	-.0580	-.2090	-.1840	-.0680	.0380	.0600	-.1550	-.0570	-.0450	-.0450	-.0270	-.0120
139.000	1.0780							-.0020		-.0220		-.0420		-.0320	
150.000	1.0780		.3340	-.1020	-.2490	-.2250	-.1160	-.0200	.0690	.0510	-.0230	-.0430	-.0830	-.0530	-.0020
165.000	1.0780			-.1270	-.2680	-.2460	-.1250	-.0270	.0880	.1050	-.0520		-.0980		-.0250
180.000	1.0780	.9610	.2750	-.1530	-.2880	-.2570	-.1390	-.0350	.0950	.0980	-.0530	-.1140	-.1300	-.1090	-.0580
270.000	1.0780	.8530													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0600	-.1010	-.3450
30.000	-.0490	-.0880	-.3280
60.000	-.0440	-.0930	-.2890
90.000			-.3640
120.000	.0710	-.0630	-.4120
135.000	.0740	-.0490	-.4530
150.000	.0830	-.0320	-.4550

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7D7 IA9 CBA + S3 + T9 EXTERNAL TANK (RBNTD7)

MACH (1) = .598 BETAT (3) = -4.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1060	-.3510
180.000	.0180		

MACH (1) = .595 BETAT (4) = -2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0920	.9680	.2680	-.1730	-.3320	-.3220	-.2170	-.1110	-.0710	-.0670	-.0690	-.0550	-.0490	-.0480	-.0170
30.000	1.0920		.2950	-.1670	-.3150	-.2970	-.1980	-.0940	-.0700	-.0900	-.0690	-.0610	-.0510	-.0400	-.0480
60.000	1.0920		.3280	-.1180	-.2620	-.2330	-.1230	-.0470	-.0360	-.2710	-.1140	-.0560	-.0490	-.0400	-.0350
90.000	1.0920	1.0180	.3430	-.0990	-.2200	-.1770	-.0310	.1070	.2120	-1.1040	-.1140	-.0920	-.0700	-.0620	-.0370
120.000	1.0920		.3330	-.0990	-.2280	-.1960	-.0740	.0300	.0680	-.1610	-.0730	-.0620	-.0600	-.0480	-.0250
135.000	1.0920							-.0010		-.0240		-.0540		-.0480	
150.000	1.0920		.3120	-.1170	-.2590	-.2310	-.1210	-.0210	.0690	.0370	-.0420	-.0580	-.0730	-.0570	-.0100
165.000	1.0920			-.1310	-.2710	-.2430	-.1260	-.0250	.0960	.0940	-.0410		-.0890		-.0120
180.000	1.0920	.9730	.2850	-.1540	-.2770	-.2450	-.1390	-.0260	.1040	.1050	-.0460	-.0920	-.1040	-.0810	-.0250
270.000	1.0920	.9180													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0540	-.0880	-.3330
30.000	-.0480	-.0830	-.3380
60.000	-.0440	-.1030	-.3050
90.000			-.3660
120.000	.0490	-.0910	-.4400
135.000	.0330	-.0890	-.4290
150.000	.0610	-.0980	-.4220
165.000		-.1640	-.2960
180.000	.0400		

AMES 11-7D7 IA9 CEA + S3 + T9 EXTERNAL TANK (RBMT07)

MACH (1) = .597 BETAT (5) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0930	.9680	.2650	-.1730	-.3310	-.3190	-.2120	-.1100	-.0680	-.0690	-.0660	-.0530	-.0430	-.0380	-.0150
30.000	1.0930		.2630	-.1890	-.3280	-.3040	-.1970	-.0870	-.0630	-.0850	-.0650	-.0610	-.0450	-.0340	-.0510
60.000	1.0930		.2680	-.1630	-.2810	-.2430	-.1230	-.0150	-.0190	-.2660	-.1110	-.0670	-.0470	-.0390	-.0360
90.000	1.0930	.9685	.2850	-.1530	-.2430	-.1920	-.0580	.1030	.2190	-1.1200	-.1130	-.0930	-.0660	-.0650	-.0360
120.000	1.0930		.2830	-.1370	-.2560	-.2130	-.0850	.0310	.0700	-.1630	-.0890	-.0720	-.0670	-.0560	-.0300
135.000	1.0930							-.0040		-.0400		-.0760		-.0570	
150.000	1.0930		.2910	-.1240	-.2670	-.2390	-.1200	-.0180	.0680	.0200	-.0660	-.0740	-.0870	-.0710	-.0170
165.000	1.0930			-.1400	-.2700	-.2440	-.1260	-.0270	.0940	.0770	-.0620		-.0940		-.0180
180.000	1.0930	.9810	.2900	-.1450	-.2730	-.2410	-.1300	-.0220	.1040	.1110	-.0650	-.0790	-.0900	-.0710	-.0160
270.000	1.0930	.9720													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0490	-.0820	-.3380
30.000	-.0430	-.0850	-.3170
60.000	-.0480	-.1080	-.3160
90.000			-.3750
120.000	.0280	-.1040	-.3830
135.000	.0310	-.1170	-.4020
150.000	.0380	-.1480	-.3790
165.000		-.2340	-.2420
180.000	.0510		

MACH (1) = .597 BETAT (6) = 2.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0920	.9630	.2640	-.1730	-.3300	-.3180	-.2170	-.1170	-.0690	-.0760	-.0670	-.0580	-.0450	-.0410	-.0190
30.000	1.0920		.2330	-.2030	-.3330	-.3100	-.2000	-.0900	-.0590	-.0810	-.0670	-.0620	-.0480	-.0390	-.0320
60.000	1.0920		.2230	-.2030	-.2990	-.2560	-.1350	-.0110	-.0130	-.2330	-.1140	-.0610	-.0510	-.0390	-.0310
90.000	1.0920	.9230	.2310	-.1950	-.2640	-.2120	-.0460	.1010	.2270	-1.0400	-.1140	-.0980	-.0720	-.0580	-.0330
120.000	1.0920		.2330	-.1790	-.2700	-.2290	-.0920	.0250	.0740	-.1640	-.1010	-.0860	-.0780	-.0650	-.0380
135.000	1.0920							-.0100		-.0490		-.0940		-.0670	
150.000	1.0920		.2630	-.1530	-.2720	-.2460	-.1300	-.0230	.0630	-.0020	-.0920	-.0980	-.1060	-.0850	-.0320
165.000	1.0920			-.1530	-.2780	-.2500	-.1290	-.0310	.0880	.0510	-.0970		-.1170		-.0350
180.000	1.0920	.9830	.2900	-.1400	-.2755	-.2460	-.1360	-.0260	.1030	.1060	-.0970	-.0890	-.0990	-.0800	-.0260
270.000	1.0920	1.0180													

X/LT	.7449	.8328	.9290
PHI			

AMES 11-70T IA9 CRA + S3 + T9 EXTERNAL TANK (RUNTO7)

MACH (1) = .997 BETAT (6) = 2.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0500	-.0880	-.3640
30.000	-.0430	-.0870	-.2930
60.000	-.0480	-.0920	-.3380
90.000			-.3730
120.000	.0140	-.1230	-.3890
135.000	.0140	-.1370	-.3900
150.000	.0110	-.1920	-.3630
165.000		-.3180	-.2400
180.000	.0390		

MACH (1) = .999 BETAT (7) = 4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0800	.9390	.2450	-.1930	-.3430	-.3300	-.2300	-.1240	-.0910	-.0800	-.0800	-.0660	-.0560	-.0480	-.0330
30.000	1.0800		.1980	-.2410	-.3580	-.3230	-.2070	-.0940	-.0550	-.0650	-.0790	-.0680	-.0560	-.0420	-.0580
60.000	1.0800		.1670	-.2460	-.3180	-.2610	-.1260	-.0100	.0030	-.2430	-.1110	-.0650	-.0510	-.0410	-.0410
90.000	1.0800	.8800	.1670	-.2410	-.2840	-.2190	-.0530	.0970	.2370	-1.0060	-.1120	-.0940	-.0720	-.0610	-.0380
120.000	1.0800		.1730	-.2190	-.2880	-.2370	-.0980	.0250	.0800	-.1600	-.1270	-.0940	-.0860	-.0680	-.0370
135.000	1.0800							-.0140		-.0590		-.1090		-.0780	
150.000	1.0800		.2210	-.1860	-.2970	-.2590	-.1390	-.0320	.0520	-.0250	-.1220	-.1230	-.1320	-.1030	-.0540
165.000	1.0800			-.1700	-.2930	-.2390	-.1420	-.0390	.0730	.0240	-.1320		-.1440		-.0690
180.000	1.0800	.9720	.2860	-.1510	-.2800	-.2570	-.1410	-.0330	.0960	.0940	-.1240	-.1120	-.1270	-.1090	-.0570
270.000	1.0800	1.0500													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0800	-.0980	-.3240
30.000	-.0590	-.0940	-.3280
60.000	-.0470	-.0980	-.3530
90.000			-.4130
120.000	-.0010	-.1260	-.3700
135.000	-.0010	-.1470	-.3600
150.000	-.0080	-.1980	-.2840
165.000		-.3060	-.1980
180.000	.0170		

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTDT)

MACH (1) = .597 BETAT (8) = 8.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0580	.9190	.2300	-.2000	-.3600	-.3460	-.2420	-.1360	-.0940	-.0940	-.0920	-.0810	-.0740	-.0860	-.0500
30.000	1.0580		.1530	-.2870	-.3740	-.3380	-.2130	-.0990	-.0540	-.0910	-.0890	-.0760	-.0610	-.0550	-.0660
60.000	1.0580		.1110	-.2820	-.3330	-.2670	-.1280	-.0070	.0150	-.2230	-.0920	-.0780	-.0520	-.0430	-.0400
90.000	1.0580	.7940	.1070	-.2840	-.3000	-.2230	-.0470	.1070	.2510	-.9000	-.0960	-.0900	-.0620	-.0510	-.0350
120.000	1.0580		.1140	-.2610	-.3080	-.2480	-.1000	.0230	.0830	-.1600	-.1210	-.1030	-.0910	-.0720	-.0391
135.000	1.0580							-.0200		-.0690		-.1190		-.0890	
150.000	1.0580		.1720	-.2190	-.3230	-.2710	-.1490	-.0400	.0400	-.0500	-.1520	-.1570	-.1570	-.1200	-.0740
165.000	1.0580			-.2010	-.3150	-.2760	-.1540	-.0560	.0550	-.0170	-.1730		-.1900		-.1180
180.000	1.0580	.9430	.2610	-.1740	-.3010	-.2750	-.1600	-.0500	.0760	.0720	-.1730	-.1580	-.1730	-.1620	-.1070
270.000	1.0580	1.0730													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0800	-.1090	-.3280
30.000	-.0520	-.0910	-.2760
60.000	-.0490	-.0890	-.2820
90.000			-.4200
120.000	-.0090	-.1200	-.3410
135.000	-.0090	-.1280	-.2840
150.000	-.0240	-.1680	-.2180
165.000		-.3520	-.2000
180.000	-.0310		

MACH (1) = .597 BETAT (9) = 8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0230	.8860	.2090	-.2190	-.3700	-.3610	-.2710	-.1690	-.1280	-.1230	-.1230	-.1090	-.1080	-.0950	-.0800
30.000	1.0230		.1120	-.2930	-.3840	-.3480	-.2390	-.1130	-.0670	-.1070	-.1200	-.0900	-.0780	-.0670	-.0840
60.000	1.0230		.0590	-.3170	-.3300	-.2820	-.1320	-.0080	.0210	-.2160	-.1160	-.0730	-.0620	-.0510	-.0540
90.000	1.0230	.7110	.0540	-.3120	-.3030	-.2340	-.0510	.1020	.2550	-.8890	-.1190	-.0950	-.0670	-.0510	-.0300
120.000	1.0230		.0640	-.2960	-.3160	-.2650	-.1100	.0190	.0840	-.1690	-.1260	-.1220	-.1090	-.0890	-.0700
135.000	1.0230							-.0360		-.0890		-.1420		-.1030	
150.000	1.0230		.1340	-.2540	-.3380	-.3000	-.1730	-.0680	.0200	-.0940	-.1930	-.1930	-.1880	-.1520	-.0880
165.000	1.0230			-.2280	-.3310	-.3070	-.1790	-.0880	.0090	-.0720	-.2330		-.2500		-.1720
180.000	1.0230	.9180	.2310	-.1810	-.3110	-.2990	-.1880	-.0860	.0460	.0330	-.2360	-.2190	-.2370	-.2310	-.1770
270.000	1.0230	1.0830													

X/LT	.7449	.8328	.9290
PHI			

AMES 11-7D? IA9 ORA + 33 + 79 EXTERNAL TANK (RBNTDP)

MACH (1) = .997 BETAT (9) = 8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.1100	-.1450	-.3740
30.000	-.0890	-.1080	-.2770
60.000	-.0810	-.1080	-.2900
90.000			-.4180
120.000	-.0190	-.1380	-.3510
135.000	-.0170	-.1220	-.2540
150.000	-.0190	-.1340	-.2540
165.000		-.3320	-.2450
180.000	-.0770		

MACH (2) = .900 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1550	1.0400	.3370	-.1800	-.5240	-.5900	-.1710	-.0540	-.0420	-.1680	-.1850	-.1020	-.0750	-.0680	-.0410
30.000	1.1550		.4590	-.0570	-.4090	-.4640	-.2020	-.0420	-.0450	-.2710	-.1540	-.0870	-.0640	-.0510	-.0710
60.000	1.1550		.5700	.0540	-.2920	-.2910	-.0680	.0870	.0860	-.4380	-.1830	-.0480	-.0310	-.0080	.0080
90.000	1.1550	1.2090	.6210	.1020	-.2400	-.1940	.0560	.2240	.3710	-.9450	-.2350	-.0790	-.0440	-.0290	.0230
120.000	1.1550		.5800	.0730	-.2720	-.2340	-.0150	.1190	.1810	-.2950	.0130	.0250	-.0130	-.0730	.0230
135.000	1.1550							.0570		-.0740		.0250		-.1090	
150.000	1.1550		.4790	-.0160	-.3760	-.3700	-.1140	.0220	.110	.0970	-.0270	-.0070	-.0780	-.1720	.0230
165.000	1.1550			-.0850	-.4410	-.4490	-.1210	.0100	.1.90	.2230	-.1360		-.1870		-.0490
180.000	1.1550	1.0410	.3510	-.1490	-.4990	-.5160	-.1140	.0180	.1820	.2310	-.2210	-.1850	-.2720	-.3880	-.1300
270.000	1.1550	.8830													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0870	-.1080	-.2990
30.000	-.0750	-.0780	-.2360
60.000	.0110	-.0510	-.2330
90.000			-.3270
120.000	.2010	.1250	-.1780
135.000	.2040	.1570	-.1780
150.000	.1830	.1870	-.1940
165.000		.1450	-.1820
180.000	.0160		

AMES 11-7ft IA9 CEA + S3 + T9 EXTERNAL TANK (RBNTOT)

MACH (2) = .899 BETAT (2) = -6.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1330	1.0700	.3610	-.1450	-.5030	-.5920	-.1450	-.0290	-.0130	-.1440	-.2210	-.0790	-.0570	-.0480	-.0260
30.000	1.1830		.4510	-.0910	-.4450	-.4930	-.1610	-.0170	-.0140	-.2310	-.1620	-.0730	-.0500	-.0400	-.0600
60.000	1.1830		.5290	.0110	-.3490	-.3060	-.0610	.0920	.1050	-.4100	-.2170	-.0620	-.0380	-.0230	-.0030
90.000	1.1830	1.1980	.5890	.0450	-.2860	-.2110	.0450	.2280	.3790	-.9530	-.2750	-.0830	-.0590	-.0500	.0130
120.000	1.1830		.5320	.0230	-.3270	-.2420	-.0190	.1290	.1940	-.2740	-.0120	.0080	-.0440	-.0890	.0050
135.000	1.1830							.0750		-.0620		.0080		-.1280	
150.000	1.1830		.4800	-.0410	-.4150	-.3670	-.0900	.0450	.1550	.0950	-.0530	-.0100	-.0920	-.1930	.0200
165.000	1.1830			-.0910	-.4530	-.4740	-.0930	.0330	.1810	.2130	-.1740		-.1630		-.0180
180.000	1.1830	1.0650	.3720	-.1400	-.4930	-.5170	-.0910	.0400	.2020	.2450	-.2360	-.1320	-.2260	-.3310	-.0740
270.000	1.1830	.9310													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0630	-.0870	-.2740
30.000	-.0650	-.0680	-.2570
60.000	.0030	-.0600	-.2460
90.000			-.3150
120.000	.1670	.0900	-.1950
135.000	.1870	.1130	-.1950
150.000	.1720	.1300	-.2130
165.000		.0820	-.2040
180.000	.0610		

MACH (2) = .899 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2050	1.0680	.3790	-.1360	-.5100	-.5780	-.1180	-.0100	.0060	-.1250	-.2900	-.0550	-.0400	-.0350	-.0070
30.000	1.2050		.4330	-.1030	-.4510	-.5310	-.1280	.0040	.0110	-.2020	-.1810	-.0360	-.0410	-.0500	-.0480
60.000	1.2050		.4860	-.0350	-.4040	-.3430	-.0530	.1020	.1180	-.3950	-.2210	-.0570	-.0430	-.0260	-.0080
90.000	1.2050	1.1720	.5170	-.0120	-.3690	-.2110	.0410	.2250	.3870	-.9610	-.3270	-.0930	-.0640	-.0470	.0070
120.000	1.2050		.4860	-.0180	-.3790	-.2370	-.0140	.1340	.2080	-.2490	-.0330	-.0150	-.0700	-.1130	-.0080
135.000	1.2050							.0840		-.0450		-.0150		-.1430	
150.000	1.2050		.4440	-.0620	-.4340	-.3870	-.0710	.0630	.1740	.0980	-.0910	-.0290	-.1120	-.1950	.0220
165.000	1.2050			-.1000	-.4520	-.4590	-.0790	.0550	.1970	.2130	-.2090		-.1920		.0020
180.000	1.2050	1.0910	.3880	-.1310	-.4780	-.4930	-.0790	.0570	.2160	.2530	-.2070	-.0830	-.1910	-.1960	-.0260
270.000	1.2050	.9950													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNTDT)

MACH (2) = .899 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8328	.9290
PHI			
.000	-.0430	-.0690	-.2550
30.000	-.0430	-.0360	-.2560
60.000	-.0020	-.0540	-.2570
90.000			-.3130
120.000	.1400	.0480	-.2180
135.000	.1400	.0610	-.2180
150.000	.1540	.0600	-.2410
165.000		-.0450	-.2290
180.000	.0990		

MACH (2) = .901 BETAT (4) = -2.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2150	1.0980	.3890	-.1320	-.4980	-.5800	-.1040	.0040	.0200	-.1120	-.3600	-.0410	-.0390	-.0230	-.0020
30.000	1.2150		.4100	-.1180	-.4860	-.5480	-.1050	.0230	.0340	-.1710	-.3740	-.0410	-.0330	-.0220	-.0420
60.000	1.2150		.4370	-.0800	-.4280	-.4630	-.0360	.1090	.1350	-.3670	-.2700	-.0500	-.0440	-.0290	-.0130
90.000	1.2150	1.1390	.4580	-.0680	-.4180	-.2200	.0460	.2290	.3980	-.9570	-.3510	-.1030	-.0690	-.0570	.0020
120.000	1.2150		.4410	-.0660	-.4230	-.2490	-.0050	.1420	.2220	-.2230	-.0540	-.0270	-.0950	-.1330	-.0100
135.000	1.2150							.0990		-.0250		-.0270		-.1500	
150.000	1.2150		.4210	-.0800	-.4520	-.4510	-.0540	.0760	.1910	.1000	-.1500	-.0280	-.1380	-.1770	.0190
165.000	1.2150			-.1040	-.4590	-.5050	-.0590	.0670	.2110	.2080	-.4700		-.1560		.0190
180.000	1.2150	1.0980	.3970	-.1240	-.4720	-.5180	-.0650	.0680	.2270	.2330	-.4010	-.0520	-.1720	-.1820	.0180
270.000	1.2150	1.0470													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0300	-.0550	-.2510
30.000	-.0160	-.0470	-.2490
60.000	-.0070	-.0640	-.2770
90.000			-.3160
120.000	.1180	.0040	-.2550
135.000	.1220	.0020	-.2530
150.000	.1320	-.0200	-.2530
165.000		-.1890	-.2410
180.000	.1180		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT07)

MACH (2) = .901 BETAT (5) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2200	1.0990	.3850	-.1290	-.4950	-.5720	-.1010	.0070	.0230	-.1090	-.3800	-.0370	-.0270	-.0190	.0080
30.000	1.2200		.3840	-.1420	-.5010	-.5600	-.0860	.0310	.0490	-.1500	-.4880	-.0340	-.0280	-.0290	-.0340
50.000	1.2200		.3850	-.1270	-.4940	-.4590	-.0230	.1170	.1500	-.3480	-.2830	-.0340	-.0410	-.0360	-.0170
90.000	1.2200	1.0990	.3980	-.1220	-.4880	-.2290	.0530	.2330	.4070	-.9650	-.3540	-.0920	-.0680	-.0550	.0000
120.000	1.2200		.3920	-.1140	-.4760	-.2760	.0030	.1490	.2390	-.1980	-.0950	-.0400	-.1210	-.1170	-.0060
135.000	1.2200							.1070		-.0120		-.0430		-.1410	
150.000	1.2200		.4000	-.1070	-.4670	-.4530	-.0450	.0840	.2030	.0970	-.5010	-.0440	-.1640	-.1720	.0180
165.000	1.2200			-.1140	-.4660	-.4770	-.0530	.0740	.2180	.2000	-.6360		-.1710		.0180
180.000	1.2200	1.1070	.4040	-.1230	-.4590	-.4990	-.0630	.0710	.2290	.2590	-.6330	-.0420	-.1670	-.1690	.0200
270.000	1.2200	1.0970													

X/LT	.7449	.8525	.9290
PHI			
.000	-.0250	-.0480	-.2490
30.000	-.0290	-.0470	-.2510
60.000	-.0110	-.0650	-.2760
90.000			-.3230
120.000	.0820	-.0330	-.2870
135.000	.0820	-.0530	-.2780
150.000	.1120	-.1020	-.2790
165.000		-.3430	-.2300
180.000	.1280		

MACH (2) = .901 BETAT (8) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2200	1.0990	.3810	-.1330	-.5010	-.5660	-.1020	.0030	.0200	-.1140	-.3170	-.0430	-.0300	-.0240	.0010
30.000	1.2200		.3350	-.1700	-.5300	-.5990	-.0780	.0370	.0600	-.1330	-.4670	-.0310	-.0280	-.0210	-.0380
60.000	1.2200		.3410	-.1780	-.5200	-.5110	-.0120	.1220	.1640	-.3230	-.2840	-.0290	-.0300	-.0290	-.0150
90.000	1.2200	1.0340	.3440	-.1750	-.5220	-.2230	.0580	.2310	.4200	-.9670	-.3510	-.0820	-.0680	-.0550	.0040
120.000	1.2200		.3430	-.1600	-.5110	-.2680	.0110	.1520	.2510	-.1790	-.1550	-.0470	-.1400	-.1170	-.0020
135.000	1.2200							.1120		-.0020		-.0560		-.1330	
150.000	1.2200		.3690	-.1380	-.4840	-.4960	-.0410	.0860	.2100	.0910	-.5950	-.0620	-.1940	-.1750	.0080
165.000	1.2200			-.1300	-.4810	-.5310	-.0460	.0730	.2200	.1890	-.6620		-.1980		.0080
180.000	1.2200	1.1080	.3990	-.1230	-.4850	-.5060	-.0640	.0690	.2260	.2170	-.6890	-.0520	-.1960	-.1870	.0090
270.000	1.2200	1.1400													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTD7)

MACH (2) = .901 BETAT (6) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0230	-.0520	-.2490
30.000	-.0130	-.0520	-.2610
60.000	-.0170	-.0720	-.2790
90.000			-.3310
120.000	.0810	-.0730	-.3080
135.000	.0820	-.0880	-.3090
150.000	.0870	-.1630	-.2800
165.000		-.4300	-.2070
180.000	.1190		

MACH (2) = .906 BETAT (7) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.9027	.5565	.6372
PHI															
.000	1.2130	1.0790	.3700	-.1410	-.4990	-.5800	-.1200	-.0100	.0050	-.1260	-.2750	-.0670	-.0420	-.0350	-.0080
30.000	1.2130		.3180	-.2020	-.5500	-.6110	-.0790	.0340	.0650	-.1240	-.4230	-.0380	-.0320	-.0250	-.0390
60.000	1.2130		.2860	-.2280	-.5560	-.3460	-.0040	.1250	.1720	-.3080	-.2620	-.0380	-.0290	-.0250	-.0200
90.000	1.2130	.9990	.2830	-.2340	-.5450	-.1790	.0650	.2290	.4330	-.9790	-.3290	-.0680	-.0680	-.0520	.0000
120.000	1.2130		.2880	-.2110	-.5420	-.2170	.0170	.1530	.2600	-.1600	-.2040	-.0570	-.1520	-.1050	-.0050
135.000	1.2130							.1140		.0020		-.0710		-.1240	
150.000	1.2130		.3370	-.1710	-.5050	-.4240	-.0420	.0840	.2110	.0780	-.6440	-.0880	-.2220	-.1680	-.0090
165.000	1.2130			-.1510	-.4870	-.4870	-.0590	.0650	.2150	.1700	-.6890		-.2270		-.0240
180.000	1.2130	1.1030	.3980	-.1260	-.4800	-.4970	-.0770	.0570	.2150	.2300	-.7130	-.0810	-.1970	-.1880	-.0200
270.000	1.2130	1.1750													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0380	-.0830	-.2520
30.000	-.0380	-.0520	-.2730
60.000	-.0230	-.0720	-.2790
90.000			-.3370
120.000	.0880	-.0730	-.3010
135.000	.0880	-.0910	-.3010
150.000	.0710	-.1580	-.2400
165.000		-.2700	-.1810
180.000	.0980		

AMES 11-70? IA9 CEA + 33 + 79 EXTERNAL TANK (RUN?9)

MACH (2) = .901 BETAT (8) = 8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1820	1.0370	.3580	-.1540	-.5130	-.5790	-.1420	-.0300	-.0160	-.1450	-.2270	-.0870	-.0810	-.0540	-.0240
30.000	1.1820		.2800	-.2290	-.5780	-.6350	-.0890	.0260	.0650	-.1190	-.4270	-.0540	-.0410	-.0410	-.0430
60.000	1.1820		.2330	-.2670	-.5880	-.3310	-.0120	.1180	.1800	-.2840	-.3030	-.0170	-.0330	-.0320	-.0220
90.000	1.1820	.9315	.2270	-.2710	-.5880	-.1730	.0640	.2160	.4440	-.9500	-.3580	-.0570	-.0760	-.0600	-.0020
120.000	1.1820		.2340	-.2540	-.5810	-.2210	.0190	.1500	.2610	-.1470	-.3970	-.0660	-.1710	-.1210	-.0200
135.000	1.1820							.1100		.0010		-.0820		-.1920	
150.000	1.1820		.2890	-.2000	-.5370	-.4770	-.0460	.0780	.2030	.0640	-.6730	-.1150	-.2630	-.2080	-.0210
165.000	1.1820			-.1670	-.5220	-.5360	-.0680	.0540	.2030	.1490	-.7240		-.2770		-.0730
180.000	1.1820	1.0690	.3700	-.1420	-.4950	-.5140	-.0920	.0390	.2010	.2340	-.4680	-.1300	-.2350	-.3290	-.0780
270.000	1.1820	1.1935													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0840	-.0880	-.2790
30.000	-.0310	-.0830	-.3020
60.000	-.0310	-.0790	-.3010
90.000			-.3320
120.000	.0910	-.0870	-.2880
135.000	.0520	-.0940	-.2720
150.000	.0590	-.1080	-.2160
165.000		-.3040	-.2370
180.000	.0580		

MACH (2) = .901 BETAT (9) = 8.220

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2335	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1580	1.0250	.3330	-.1640	-.5290	-.5860	-.1810	-.0580	-.0480	-.1750	-.1970	-.1200	-.0840	-.0810	-.0490
30.000	1.1580		.2960	-.2680	-.6120	-.6660	-.0920	.0170	.0590	-.1220	-.3540	-.0680	-.0490	-.0490	-.0480
60.000	1.1580		.1800	-.3160	-.6250	-.2560	-.0080	.1100	.1790	-.2730	-.2280	-.0310	-.0490	-.0430	-.0280
90.000	1.1580	.8640	.1730	-.3190	-.6350	-.1410	.0320	.2050	.4530	-.9240	-.3340	-.0540	-.0680	-.0550	.0000
120.000	1.1580		.1790	-.3000	-.6220	-.1850	.0200	.1470	.2620	-.1370	-.4460	-.0810	-.1850	-.1220	-.0370
135.000	1.1580							.1060		-.0020		-.0970		-.1380	
150.000	1.1580		.2470	-.2380	-.5740	-.5320	-.0590	.0630	.1980	.0410	-.6930	-.1490	-.2980	-.1970	-.0290
165.000	1.1580			-.2040	-.5430	-.5830	-.0840	.0350	.1860	.1190	-.5460		-.3300		-.1170
180.000	1.1580	1.0480	.3500	-.1540	-.4990	-.5320	-.1180	.0150	.1780	.1970	-.5440	-.1990	-.2850	-.3980	-.1380
270.000	1.1580	1.2100													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-7ft IA9 OEA • 93 • T9 EXTERNAL TANK (RUN707)

MACH (2) = .901 BETAT (9) = 8.220

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0850	-.1050	-.3020
30.000	-.0590	-.0720	-.3120
60.000	-.0360	-.0750	-.3100
90.000			-.3640
120.000	.0480	-.0920	-.2790
135.000	.0480	-.0680	-.2370
150.000	.0860	-.2020	-.2420
165.000		-.3020	-.2300
180.000	.0150		

MACH (3) = 1.100 BETAT (1) = -8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2880	1.1800	.5240	.0680	-.2090	-.3490	-.4370	-.3800	.1020	.0700	-.1280	-.2980	-.1330	-.0800	-.0350
30.000	1.2880		.6280	.1530	-.2030	-.2800	-.3810	-.3100	.1130	-.0220	-.2940	-.0800	-.1490	-.0780	-.0930
60.000	1.2880		.7200	.2390	-.1270	-.2120	-.3180	.0500	.2590	-.1230	-.4820	-.0210	.0340	.0010	-.0320
90.000	1.2880	1.3270	.7630	.2770	-.0990	-.1890	-.2950	.2370	.5240	-.5020	-.4880	-.0790	-.1020	-.1590	-.1030
120.000	1.2880		.7280	.2510	-.1270	-.2060	-.3030	-.0720	.5330	-.0290	-.3480	.1860	.1430	.0340	-.1890
135.000	1.2880							-.2470		.1380		.1920		.0210	
150.000	1.2880		.6420	.1770	-.1910	-.2720	-.3830	-.3160	.2830	.2970	-.1210	.1470	.1180	-.0480	-.1770
165.000	1.2880			.1210	-.2370	-.3070	-.3950	-.3530	.2970	.4180	-.1310		.0480		-.2800
180.000	1.2880	1.1770	.5360	.0700	-.2670	-.3420	-.4320	-.3130	.2760	.4330	-.1820	-.2910	-.0240	-.2380	-.3810
270.000	1.2880	1.0240													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0840	-.0320	-.0800
30.000	-.0440	-.0150	-.0680
60.000	-.0010	-.0010	-.0280
90.000			-.1230
120.000	.2010	.2740	.0880
135.000	.2130	.3190	.0930
150.000	.2190	.3520	.0660
165.000		.3280	.0630
180.000	.0490		

AMES 11-FT IA9 CEA + S3 + T9 EXTERNAL TANK (ABORTED)

MACH (3) = 1.099 BETAT (2) = -2.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3190	1.2930	.5400	.0780	-.2620	-.3400	-.4300	-.3720	.1270	.1090	-.0930	-.2970	-.1190	-.0570	.0180
30.000	1.3190		.6170	.1240	-.2150	-.2950	-.3940	-.3240	.1580	.0290	-.2730	-.0940	-.0370	-.0450	-.0320
60.000	1.3190		.6830	.1990	-.1490	-.2460	-.3490	-.0580	.2730	-.0930	-.3290	-.0160	.0280	-.0040	-.0140
90.000	1.3190	1.3127	.7130	.2240	-.1380	-.2290	-.3310	.1330	.3310	-.3010	-.4890	-.0490	-.0620	-.1480	-.0930
120.000	1.3190		.6820	.2100	-.1560	-.2390	-.3360	-.1470	.3590	.0060	-.3390	.1790	.1250	.0110	-.1080
135.000	1.3190							-.2925		.1760		.1910		.0030	
150.000	1.3190		.8230	.1580	-.2040	-.2850	-.3730	-.3390	.3110	.3190	-.1550	.1650	.2150	-.0580	-.1870
165.000	1.3190			.1170	-.2350	-.3060	-.3970	-.3570	.3010	.4260	-.1550		.0640		-.2430
180.000	1.3190	1.1999	.5490	.0790	-.2520	-.3380	-.4200	-.2360	.2770	.4450	-.1820	-.0550	.3190	-.1950	-.3120
195.000	1.3190	1.0830													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0790	-.0280	-.0770
30.000	-.0430	-.0120	-.0620
60.000	-.0140	-.0110	-.0770
90.000			-.1380
180.000	.1820	.2280	.0970
195.000	.1440	.2560	.0360
210.000	.2090	.2880	.0370
225.000		.2210	.0370
240.000	.1190		

MACH 3) = 1.1990 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3260	1.2130	.5300	.0810	-.2800	-.3400	-.4300	-.3650	.1450	.1540	-.0990	-.2980	-.0980	.0180	.0230
30.000	1.3260		.5980	.1130	-.2330	-.3020	-.4090	-.3560	.1580	.0740	-.2380	-.1190	-.0480	.0000	-.0380
60.000	1.3260		.6440	.1810	-.1870	-.2780	-.3740	-.3110	.2980	-.0810	-.4330	.0010	.0230	.0000	-.0130
90.000	1.3260	1.2840	.6440	.1790	-.1790	-.2670	-.3690	.1090	.3390	-.3480	-.4740	-.1240	-.0791	-.1850	-.1110
120.000	1.3260		.6480	.1770	-.1910	-.2740	-.3630	-.2260	.3890	.0320	-.3340	.1850	.1180	-.0080	-.2130
135.000	1.3260							-.3125		.1990		.1870		-.0190	
150.000	1.3260		.8120	.1630	-.2230	-.3140	-.3850	-.3330	.3100	.3330	-.1790	.1440	.2140	-.0370	-.2090
165.000	1.3260			.1130	-.2360	-.3150	-.4020	-.2590	.2910	.4220	-.2120		.0810		-.2340
180.000	1.3260	1.2190	.5890	.0890	-.2590	-.3330	-.4180	-.2010	.2220	.4580	-.2120	.0350	.3540	-.1220	-.2980
195.000	1.3260	1.1390													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-7X7 IA9 CRA + SS + TS EXTERNAL TANK (RUNTOT)

MACH (3) = 1.700 BETAT (3) = -4.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.9328	.9290
PHI			
.000	-.0730	-.0390	-.0900
30.000	-.0680	-.0390	-.0820
60.000	-.0900	-.0140	-.1130
90.000			-.1430
120.000	.1310	.1680	.0090
135.000	.1700	.1990	.0270
150.000	.1910	.1990	.0160
165.000		.0370	-.0030
180.000	.1440		

MACH (3) = 1.101 BETAT (4) = -2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.9027	.5565	.6372
PHI															
.000	1.3330	1.2230	.5590	.0870	-.2550	-.3330	-.4240	-.3650	.1400	.1450	-.0390	-.2830	-.0890	.0420	.0490
30.000	1.3330		.5790	.0940	-.2450	-.3210	-.4170	-.3490	.1430	.1060	-.1840	-.1700	-.0480	.0340	-.0250
60.000	1.3330		.6000	.1210	-.2250	-.3030	-.3970	-.1730	.3010	-.0570	-.5250	-.0090	.0150	.0130	-.0100
90.000	1.3330	1.2800	.6140	.1320	-.2140	-.3020	-.3920	.0570	.5490	-.4940	-.4420	.0040	-.0360	-.1280	-.0940
120.000	1.3330		.6050	.1340	-.2190	-.2990	-.3870	-.2020	.4010	.0590	-.3250	.1700	.1090	-.0270	-.2280
135.000	1.3330							-.2470		.2280		.1730		-.0300	
150.000	1.3330		.5910	.1240	-.2370	-.3100	-.3980	-.1670	.2430	.3470	-.1930	.1350	.1050	-.0840	-.2270
165.000	1.3330			.1060	-.2440	-.3170	-.4030	-.0240	.2030	.4320	-.2380		.0930		-.2280
180.000	1.3330	1.2290	.5730	.0900	-.2530	-.3230	-.4140	.0180	.1570	.4540	-.2370	-.0290	.0800	-.0920	-.2510
270.000	1.3330	1.1860													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0680	-.0370	-.0470
30.000	-.0390	-.0300	-.0480
60.000	-.0230	-.0300	-.1160
90.000			-.1570
120.000	.1410	.1190	-.0760
135.000	.1580	.1280	-.0540
150.000	.1770	.1120	-.0760
165.000		-.0720	-.1050
180.000	.1650		

AMES 11-70? IA9 O2A + 33 + T9 EXTERNAL TANK (RBNTO?)

MACH (5) = 1.099 BETAT (5) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3330	1.2150	.5540	.0850	-.2570	-.3350	-.4240	-.3650	.1420	.1420	-.0600	-.2880	-.0700	.0340	.0390
30.000	1.3330		.5290	.0560	-.2810	-.3520	-.4420	-.3530	.1140	.1100	-.1130	-.2310	-.0730	.0360	-.0340
60.000	1.3330		.5140	.0420	-.2900	-.3610	-.4440	-.0300	.2500	-.0040	-.4710	-.0390	-.0500	.0150	-.0220
90.000	1.3330	1.1760	.5160	.0410	-.2890	-.3700	-.4510	.0070	.5860	-.5020	-.3480	-.0150	-.0820	-.1520	-.1090
120.000	1.3330		.5150	.0550	-.2840	-.3620	-.4140	.0160	.2430	.1120	-.2880	.0990	.0410	-.1010	-.2890
135.000	1.3330							.0210		.2360		.0550		-.1090	
150.000	1.3330		.5420	.0810	-.2740	-.3490	-.2260	.0360	.1660	.2950	-.2110	.0540	.0270	-.1320	-.2750
165.000	1.3330			.0850	-.2620	-.3400	-.3720	.0340	.1520	.3370	-.2790		.0430		-.2870
180.000	1.3330	1.2290	.5690	.0920	-.2550	-.3270	-.4160	.0090	.1760	.4620	-.2790	.0240	.0740	-.1050	-.2580
270.000	1.3330	1.2610													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0680	-.0420	-.0530
30.000	-.0880	-.0220	-.0700
60.000	-.0280	-.0240	-.0940
90.000			-.1390
120.000	.1070	.0300	-.1150
135.000	.1070	.0100	-.1220
150.000	.1310	-.0470	-.1520
165.000		-.2160	-.1830
180.000	.1600		

MACH (3) = 1.100 BETAT (6) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3210	1.2000	.5440	.0780	-.2590	-.3360	-.4250	-.3670	.1310	.1280	-.0770	-.2910	-.1050	.0080	.0290
30.000	1.3210		.4950	.0330	-.3010	-.3640	-.4530	-.1600	.1000	.0630	-.1110	-.2450	-.1050	.0100	-.0280
60.000	1.3210		.4670	.0010	-.3140	-.3840	-.4610	-.0320	.1450	.0310	-.4350	-.0730	-.0760	.0070	-.0260
90.000	1.3210	1.1250	.4640	-.0040	-.3170	-.3910	-.2690	-.0240	.6090	-.4870	-.2780	-.0200	-.0990	-.1500	-.1180
120.000	1.3210		.4680	.0140	-.3100	-.3790	-.0750	-.001?	.1540	.1560	-.2460	.0040	.0350	-.1160	-.2930
135.000	1.3210							.0130		.2140		.0180		-.1360	
150.000	1.3210		.5110	.0550	-.2920	-.3610	-.0790	.0190	.1430	.2650	-.2580	.0130	.0120	-.1740	-.3120
165.000	1.3210			.0700	-.2740	-.3490	-.3620	-.0060	.1480	.3740	-.3420		.0250		-.3330
180.000	1.3210	1.2220	.5650	.0370	-.2560	-.3290	-.4160	-.0380	.2140	.4770	-.3410	-.0810	.0810	-.1320	-.2830
270.000	1.3210	1.2910													

X/LT	.7449	.8526	.9290
PHI			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7X7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMTD7)

MACH (3) = 1.100 BETAT (6) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0740	-.0310	-.0530
30.000	-.0560	-.0100	-.0840
60.000	-.0120	-.0180	-.0830
90.000			-.1490
120.000	.1040	.0080	-.1500
135.000	.1050	-.0140	-.1710
150.000	.1170	-.0670	-.1870
165.000		-.1880	-.1870
180.000	.1420		

MACH (3) = 1.101 BETAT (7) = 6.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3070	1.1870	.5340	.0710	-.2650	-.3420	-.4330	-.3720	.1170	.0970	-.1030	-.2930	-.1270	-.0430	-.0050
30.000	1.3070		.4610	.0040	-.3230	-.3880	-.4710	-.0680	.0910	.0590	-.1690	-.2800	-.1050	-.0040	-.0290
60.000	1.3070		.4210	-.0390	-.3410	-.4020	-.4320	-.0430	.0660	.0670	-.3970	-.1230	-.0880	.0020	-.0470
90.000	1.3070	1.0700	.4170	-.0470	-.3450	-.4130	-.1120	-.0350	.6050	-.4710	-.1930	-.0250	-.1110	-.1420	-.1440
120.000	1.3070		.4220	-.0290	-.3370	-.4020	-.0480	-.0110	.1010	.1710	-.2260	-.0330	.0180	-.1450	-.3390
135.000	1.3070							.0020		.2620		.0140		-.1710	
150.000	1.3070		.4730	.0210	-.3100	-.3810	-.0480	-.0090	.1220	.2620	-.2850	.0570	-.0290	-.2220	-.3890
165.000	1.3070			.0480	-.2900	-.3620	-.3190	-.0260	.1530	.3540	-.3900		-.0260		-.4120
180.000	1.3070	1.1990	.5470	.0720	-.2630	-.3360	-.4250	-.0650	.2410	.4460	-.3890	-.0670	.0210	-.1830	-.3240
270.000	1.3070	1.3160													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0790	-.0240	-.0710
30.000	-.0330	-.0060	-.0840
60.000	.0080	-.0070	-.0850
90.000			-.1450
120.000	.0940	.0080	-.1450
133.000	.0880	-.0170	-.1950
150.000	.0890	-.1990	-.1970
165.000		-.2710	-.2280
180.000	.1070		

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK (RBNTO7)

MACH (3) = 1.101 BETAT (8) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2850	1.1630	.5180	.0610	-.2780	-.3540	-.4370	-.3880	.0870	.0520	-.1410	-.2400	-.1520	-.0950	-.0250
30.000	1.2850		.4280	-.0190	-.3440	-.4080	-.4920	-.0740	.0870	.0910	-.1400	-.2620	-.1210	-.0300	-.0280
60.000	1.2850		.3790	-.0700	-.3680	-.4320	-.1830	-.0610	.0150	.0990	-.2440	-.2030	-.0940	-.0230	-.0390
90.000	1.2850	1.0140	.3710	-.0830	-.3710	-.4410	-.0800	-.0580	.5060	-.4460	-.1050	-.2280	-.1070	-.1360	-.1470
120.000	1.2850		.3750	-.0630	-.3630	-.4300	-.0260	-.0330	.0750	.1330	-.1330	-.0440	-.0070	-.1640	-.3680
135.000	1.2850							-.0340		.2890		.0170		-.1980	
150.000	1.2850		.4370	-.0050	-.3280	-.4070	-.1010	-.0590	.1250	.2430	-.3330	.0060	-.0800	-.2740	-.4170
165.000	1.2850			.0250	-.3110	-.3790	-.4540	-.0630	.1940	.3160	-.4300		-.0790		-.3030
180.000	1.2850	1.1810	.5280	.0640	-.2760	-.3420	-.4380	-.3310	.2660	.4270	-.4280	-.1980	-.0220	-.2360	-.4100
270.000	1.2850	1.3280													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0840	-.0420	-.1010
30.000	-.0460	.0000	-.0990
60.000	-.0090	-.0050	-.1000
90.000			-.1610
120.000	.0080	-.0140	-.1600
135.000	.0090	-.0140	-.2170
150.000	.0180	-.2120	-.2290
165.000		-.2620	-.2310
180.000	.0240		

MACH (4) = 1.249 BETAT (1) = -8.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3630	1.2610	.5910	.1430	-.1740	-.2440	-.3330	-.2920	-.1730	.1120	-.0030	-.1850	-.1550	-.1200	-.0400
30.000	1.3630		.6970	.2400	-.1000	-.1750	-.2770	-.2300	.0520	-.0090	-.1620	-.2070	-.0230	-.0370	-.0830
60.000	1.3630		.7890	.3180	-.0320	-.1170	-.2160	-.1720	.2900	.0100	-.4660	-.0960	.0260	.0230	.0000
90.000	1.3630	1.4070	.8280	.3510	-.0030	-.0980	-.1940	-.1530	.5620	-.3070	-.4600	-.0280	-.0780	-.2010	-.0770
120.000	1.3630		.7840	.3180	-.0370	-.1200	-.2090	-.1510	.3100	.0120	-.2640	.1410	.1790	.1140	-.0380
135.000	1.3630							-.1940		.1920		.1000		.1130	
150.000	1.3630		.6940	.2390	-.1030	-.1810	-.2680	-.2350	.0760	.3710	.0330	-.0920	.2000	.0730	-.0510
165.000	1.3630			.1860	-.1460	-.2220	-.3000	-.2660	.1450	.5250	.0390		.0810		-.1230
180.000	1.3630	1.2470	.5820	.1320	-.1800	-.2520	-.3310	-.2940	.1600	.5630	.0350	-.2790	-.0890	.0270	-.2470
270.000	1.3630	1.0920													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RUNTO7)

MACH (4) = 1.249 BETAT (1) = -0.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0480	-.0280	-.0490
30.000	-.0480	-.0180	-.0060
60.000	-.0120	-.0150	-.0040
90.000			-.1250
120.000	.0950	.3480	.1260
135.000	.0400	.3980	.1750
150.000	-.0450	.4370	.1730
165.000		.4520	.1490
180.000	-.3400		

MACH (4) = 1.248 BETAT (2) = -0.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3880	1.2850	.6050	.1350	-.1650	-.2350	-.3200	-.2840	-.1990	.1700	.0320	-.1680	-.1800	-.0970	-.0100
30.000	1.3880		.6840	.2290	-.1090	-.1810	-.2790	-.2360	.0540	.0250	-.0910	-.2090	-.0280	-.0580	-.0740
60.000	1.3880		.7510	.2850	-.0610	-.1450	-.2390	-.1970	.2690	.0250	-.4570	-.0590	.0320	.0150	-.0210
90.000	1.3880	1.3910	.7770	.3070	-.0410	-.1340	-.2260	-.1650	.5530	-.3010	-.6470	-.0460	-.0630	-.1050	-.0950
120.000	1.3880		.7430	.2820	-.0660	-.1510	-.2350	-.1810	.3090	.0750	-.2600	.0970	.0960	.1030	-.0710
135.000	1.3880							-.2190		.2300		.0170		.1060	
150.000	1.3880		.6780	.2230	-.1150	-.1940	-.2780	-.2410	.1730	.3920	.0150	-.1210	.1520	.0880	-.0720
165.000	1.3880			.1330	-.1440	-.2230	-.2990	-.2650	.1830	.5110	.0110		.0420		-.1270
180.000	1.3880	1.2630	.5950	.1450	-.1720	-.2470	-.3230	-.2770	.2090	.5120	.0100	-.2140	-.0750	.0450	-.2180
270.000	1.3880	1.1510													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0370	-.0420	-.0340
30.000	-.0380	-.0230	-.0230
60.000	-.0040	-.0210	-.0440
90.000			-.1640
120.000	.0480	.2990	.0560
135.000	-.0210	.3550	.0960
150.000	-.0820	.3850	.0990
165.000		.3430	.0990
180.000	-.2920		

AMES 11-7ft IA9 OEA + S3 + T5 EXTERNAL TANK (RBNTD7)

MACH (4) = 1.248 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4050	1.2950	.6140	.1610	-.1550	-.2260	-.3080	-.2840	-.2030	.2030	.0770	-.1590	-.2040	-.0710	.0040
30.000	1.4050		.6870	.2090	-.1210	-.1940	-.2820	-.2480	.0660	.0650	-.0970	-.2060	-.0420	-.0560	-.0600
60.000	1.4050		.7120	.2480	-.0940	-.1710	-.2610	-.2200	.2410	.0340	-.4450	-.0520	.0270	.0030	-.0360
90.000	1.4050	1.3690	.7290	.2610	-.0790	-.1660	-.2530	-.2170	.5520	-.3020	-.6720	-.0540	-.0300	-.0710	-.1230
120.000	1.4050		.7060	.2450	-.0960	-.1730	-.2550	-.2070	.3300	.1110	-.2460	.0350	.0850	.0890	-.0990
135.000	1.4050							-.2380		.2780		-.0900		.0810	
150.000	1.4050		.6650	.2060	-.1290	-.2040	-.2620	-.2480	.2150	.4220	-.0040	-.1340	.1340	.0980	-.0980
165.000	1.4050			.1770	-.1440	-.2190	-.2950	-.2800	.2260	.4780	-.0210		.0170		-.1290
180.000	1.4050	1.2850	.6090	.1480	-.1610	-.2360	-.3110	-.2690	.1970	.4800	-.1210	-.1610	-.1060	.0640	-.1670
270.000	1.4050	1.2050													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0180	-.0230	-.0340
30.000	-.0170	-.0110	-.0130
60.000	-.0010	-.0220	-.0360
90.000			-.1620
120.000	-.0010	.2630	.0370
135.000	-.0840	.2940	.0440
150.000	-.0890	.3000	.0430
165.000		.1840	.0780
180.000	-.2210		

MACH (4) = 1.247 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4140	1.3090	.6230	.1670	-.1530	-.2270	-.3190	-.2800	-.1860	.2060	.0620	-.1500	-.2100	-.0590	.0080
30.000	1.4140		.6480	.1900	-.1380	-.2110	-.3060	-.2650	.0500	.1130	-.0430	-.2010	-.0550	-.0590	-.0440
60.000	1.4140		.6680	.2000	-.1220	-.2040	-.2910	-.2500	.1980	.0530	-.4110	-.0440	.0200	-.0220	-.0350
90.000	1.4140	1.3390	.6780	.2110	-.1170	-.2040	-.2870	-.2440	.5570	-.2960	-.5980	-.0600	.0430	-.0970	-.1220
120.000	1.4140		.6610	.2040	-.1240	-.2040	-.2860	-.2420	.3360	.1420	-.2330	-.0330	.1350	.0500	-.1220
135.000	1.4140							-.2350		.3050		-.1510		.0580	
150.000	1.4140		.6410	.1860	-.1420	-.2220	-.2990	-.2580	.2180	.4020	-.0130	-.1070	.0720	.0820	-.1210
165.000	1.4140			.1720	-.1540	-.2280	-.3090	-.2680	.1260	.4550	-.0500		-.0250		-.1220
180.000	1.4140	1.2960	.6180	.1510	-.1610	-.2380	-.3150	-.2710	.1170	.4250	-.0510	-.1150	-.1840	.0970	-.1400
270.000	1.4140	1.2540													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-7ft IA9 CEA + S3 + T9 EXTERNAL TANK (RBM707)

MACH (4) = 1.247 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0040	-.0220	-.0280
30.000	.0000	-.0120	-.0130
60.000	-.0010	-.0210	-.0290
90.000			-.1240
120.000	-.0230	.2010	-.0350
135.000	-.0890	.2200	-.0210
150.000	-.1100	.2190	-.0210
165.000		.0830	.0300
180.000	-.1520		

MACH (4) = 1.247 BETAT (5) = 2.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4200	1.3010	.6210	.1640	-.1550	-.2290	-.3150	-.2720	-.1680	.1950	.0870	-.1470	-.2050	-.0990	.0100
30.000	1.4200		.5970	.1400	-.1740	-.2420	-.3300	-.2820	.0680	.0960	.0850	-.1940	-.1080	-.0570	-.0360
60.000	1.4200		.5820	.1250	-.1790	-.2540	-.3300	-.2930	.1040	.0960	-.3650	-.0360	-.0170	-.0480	-.0280
90.000	1.4200	1.2530	.5790	.1230	-.1830	-.2590	-.3370	-.2930	.5790	-.2940	-.4180	-.0550	.0180	-.0980	-.1130
120.000	1.4200		.5770	.1260	-.1810	-.2580	-.3280	-.2860	.1440	.1850	-.2010	-.0300	.0390	.0260	-.1590
135.000	1.4200							-.2810		.2570		-.1230		.0280	
150.000	1.4200		.5990	.1480	-.1710	-.2470	-.3200	-.2810	.1390	.2800	-.0180	-.1670	-.0210	.0260	-.1590
165.000	1.4200			.1540	-.1670	-.2400	-.3160	-.2780	.1460	.2940	-.0760		-.1120		-.1590
180.000	1.4200	1.3050	.6240	.1590	-.1590	-.2390	-.3120	-.2740	.1310	.4570	-.0750	-.1190	-.1850	.1040	-.1410
270.000	1.4200	1.3370													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0050	-.0210	-.0220
30.000	-.0050	-.0100	-.0210
60.000	-.0050	-.0110	-.0220
90.000			-.0870
120.000	-.0890	.1170	-.0870
135.000	-.1290	.1130	-.0640
150.000	-.1480	.0750	-.0890
165.000		-.0380	-.1480
180.000	-.1480		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RUNTO7)

MACH (4) = 1.243 BETAT (6) = 4.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4090	1.2840	.6090	.1600	-.1600	-.2310	-.3130	-.2820	-.1860	.1770	.0390	-.1600	-.1950	-.0780	.0070
30.000	1.4090		.5640	.1120	-.1930	-.2580	-.3420	-.2990	.0680	.0890	-.0050	-.2130	-.1580	-.0860	-.0360
60.000	1.4090		.5330	.0850	-.2090	-.2810	-.3560	-.3150	.0570	.1160	-.3340	-.0290	-.0520	-.0810	-.0190
90.000	1.4090	1.2110	.5270	.0780	-.2110	-.2890	-.3570	-.3050	.5800	-.2980	-.3410	-.0770	.0150	-.1010	-.1100
120.000	1.4090		.5300	.0870	-.2070	-.2810	-.3510	-.3060	.0930	.2400	-.1710	-.0720	-.0110	.0240	-.1930
135.000	1.4090							-.3000		.2450		-.1150		.0150	
150.000	1.4090		.5680	.1220	-.1920	-.2650	-.3370	-.2920	.1320	.3110	-.0490	-.2110	-.0730	-.0010	-.1900
165.000	1.4090			.1380	-.1790	-.2530	-.3270	-.2890	.1270	.3350	-.1480		-.1220		-.2040
180.000	1.4090	1.2990	.6170	.1530	-.1650	-.2430	-.3180	-.2760	.1220	.4930	-.1470	-.1640	-.0780	.0510	-.1610
270.000	1.4090	1.3670													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0140	-.0330	-.0350
30.000	-.0140	-.0260	-.0520
60.000	.0050	-.0260	-.0370
90.000			-.0810
120.000	-.0600	.0300	-.0810
135.000	-.0390	.0310	-.1080
150.000	-.0880	.0340	-.1090
165.000		-.1730	-.1400
180.000	-.2210		

MACH (4) = 1.246 BETAT (7) = 6.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3900	1.2710	.6020	.1520	-.1650	-.2380	-.3230	-.2850	-.1710	.1560	.0180	-.1700	-.1710	-.0920	-.0240
30.000	1.3900		.5280	.0920	-.2150	-.2770	-.3610	-.3180	.0710	.1830	.0180	-.2230	-.1610	-.0740	-.0240
60.000	1.3900		.4860	.0470	-.2350	-.3060	-.3770	-.3370	.0230	.1610	-.2980	-.0290	-.1040	-.0670	-.0180
90.000	1.3900	1.1570	.4770	.0410	-.2420	-.3160	-.3830	-.2220	.5720	-.2880	-.2590	-.0780	-.0620	-.1020	-.0920
120.000	1.3900		.4810	.0490	-.2350	-.3060	-.3750	-.1650	.0570	.2720	-.1390	-.1190	-.0730	.0060	-.2180
135.000	1.3900							-.2110		.2130		-.1430		-.0040	
150.000	1.3900		.5310	.0950	-.2120	-.2840	-.3580	-.3060	.1320	.2930	-.0920	-.2340	-.0520	-.0440	-.2300
165.000	1.3900			.1180	-.1910	-.2670	-.3410	-.2990	.1430	.3960	-.1910		-.0050		-.2690
180.000	1.3900	1.2760	.5980	.1470	-.1750	-.2470	-.3260	-.2800	.1990	.4910	-.1920	-.2270	-.0340	.0300	-.2260
270.000	1.3900	1.3900													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-7D7 IA9 ORA + B3 + T9 EXTERNAL TANK (RUNTO7)

MACH (4) = 1.246 BETAT (7) = 6.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0530	-.0480	-.0290
30.000	-.0090	-.0260	-.0270
60.000	.0140	.0090	-.0270
90.000			-.0730
120.000	.0140	.0500	-.0750
135.000	.0120	.0640	-.0940
150.000	-.0030	.0420	-.1390
165.000		-.2230	-.2060
180.000	-.3020		

MACH (4) = 1.247 BETAT (8) = 8.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3720	1.2500	.5850	.1400	-.1710	-.2440	-.3360	-.3010	-.1620	.1000	-.0150	-.1910	-.1480	-.1250	-.0440
30.000	1.3720		.4940	.0830	-.2360	-.2970	-.3780	-.3440	.0310	.1800	-.0130	-.2170	-.1870	-.0930	-.0400
60.000	1.3720		.4420	.0120	-.2640	-.3320	-.4000	-.3530	-.0060	.1860	-.2620	-.0410	-.1410	-.0680	-.0320
90.000	1.3720	1.0980	.4330	.0010	-.2700	-.3420	-.4010	-.0750	.5220	-.2740	-.1370	-.1100	-.1500	-.0950	-.0690
120.000	1.3720		.4340	.0150	-.2640	-.3340	-.3990	-.0410	.0330	.2640	-.1350	-.1650	-.0900	-.0120	-.2310
135.000	1.3720							-.0450		.2660		-.1620		-.0360	
150.000	1.3720		.4960	.0620	-.2370	-.3100	-.3770	-.3120	.1570	.2940	-.1430	-.2740	.0050	-.0810	-.2840
165.000	1.3720			.0960	-.2100	-.2910	-.3620	-.3230	.1170	.4020	-.2260		.0020		-.3450
180.000	1.3720	1.2570	.5840	.1360	-.1830	-.2590	-.3330	-.2950	.1780	.5290	-.2270	-.2750	-.0580	.0050	-.2440
270.000	1.3720	1.4030													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0510	-.0360	-.0410
30.000	.0100	-.0270	-.0580
60.000	.0480	-.0330	-.0450
90.000			-.0970
120.000	.0470	.0320	-.0980
135.000	-.0350	.0270	-.1570
150.000	-.0880	-.1210	-.1980
165.000		-.2480	-.2060
180.000	-.3390		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RRMT07)

MACH (5) = 1.395 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4290	1.3050	.3980	.1710	-.1210	-.1820	-.2600	-.2370	-.1940	.1030	.0500	-.1180	-.1660	-.1120	-.0730
30.000	1.4290		.7110	.2650	-.0540	-.1150	-.2120	-.1820	.0130	.0370	-.1360	-.1930	-.0410	-.0380	-.0740
60.000	1.4290		.8040	.3450	.0130	-.0630	-.1560	-.1250	.2560	.0950	-.3630	-.1370	-.0070	.0120	.0050
90.000	1.4290	1.4630	.8510	.3820	.0390	-.0420	-.1320	-.1020	.5880	-.1580	-.5730	.0120	-.0740	-.1100	-.1580
120.000	1.4290		.8090	.3520	.0170	-.0670	-.1440	-.1180	.3370	.1030	-.2680	.1240	.1450	.1610	-.0210
135.000	1.4290							-.1430		.1040		-.0370		.1230	
150.000	1.4290		.7200	.2780	-.0450	-.1200	-.1980	-.1740	-.0710	.3930	.1470	-.0290	.0340	.1030	-.0030
165.000	1.4290			.2240	-.0820	-.1560	-.2280	-.2020	-.1540	.5330	.1570		-.1090		-.(990
180.000	1.4290	1.3030	.6070	.1730	-.1190	-.1860	-.2560	-.2260	-.0350	.5200	.1490	-.1540	-.2410	-.052"	-.1030
270.000	1.4290	1.1320													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0750	-.0460	-.0390
30.000	-.0750	-.0470	.0040
60.000	-.0020	-.0300	-.0050
90.000			-.2000
120.000	.0880	.3780	.2080
135.000	.0250	.4240	.2000
150.000	.0030	.4370	.2160
165.000		.4790	.2180
180.000	-.2490		

MACH (5) = 1.395 BETAT (2) = -6.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4540	1.3310	.6180	.1790	-.1100	-.1740	-.2600	-.2320	-.1750	.1450	.0770	-.0910	-.1550	-.0910	-.0340
30.000	1.4540		.6960	.2520	-.0580	-.1280	-.2170	-.1890	-.0250	.0400	-.0990	-.1750	-.0190	-.0210	-.0720
60.000	1.4540		.7680	.3100	-.0140	-.0950	-.1830	-.1500	.2210	.1050	-.3600	-.1510	.0180	.0270	-.0010
90.000	1.4540	1.4500	.7980	.3360	.0050	-.0790	-.1660	-.1340	.5770	-.1530	-.5700	-.0040	-.0860	-.0890	-.1220
120.000	1.4540		.7685	.3160	-.0080	-.0910	-.1700	-.1420	.3370	.1160	-.2180	.0500	.1290	.1320	-.0350
135.000	1.4540							-.1630		.1890		-.0610		.1010	
150.000	1.4540		.7030	.2620	-.0530	-.1310	-.2030	-.1850	-.0990	.3970	.1360	-.0260	.0370	.0740	-.0080
165.000	1.4540			.2210	-.0820	-.1550	-.2280	-.2010	-.0020	.4250	.1440		-.1020		-.0130
180.000	1.4540	1.3230	.6170	.1860	-.1090	-.1800	-.2500	-.2190	.1250	.3870	.1410	-.0800	-.1800	-.0280	-.0500
270.000	1.4540	1.1950													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-707 IA9 OEA + 83 + T9 EXTERNAL TANK (RBNTD7)

MACH (5) = 1.395 BETAT (2) = -6.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0410	-.0580	-.0220
30.000	-.0380	-.0250	-.0050
60.000	-.0070	-.0200	-.0040
90.000			-.1830
120.000	.0540	.3350	.1750
135.000	-.0110	.3710	.1530
150.000	-.0510	.3730	.1520
165.000		.3750	.2180
180.000	-.2220		

MACH (5) = 1.397 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4700	1.3440	.8190	.1900	-.1040	-.1710	-.2510	-.2230	-.1610	.1670	.1050	-.0770	-.1520	-.0900	-.0050
30.000	1.4700		.6720	.2330	-.0740	-.1390	-.2240	-.1940	-.0650	.0370	-.0280	-.1540	-.0310	-.0190	-.0590
60.000	1.4700		.7200	.2700	-.0440	-.1190	-.2000	-.1680	.1880	.1190	-.3900	-.1340	.0250	.0360	-.0220
90.000	1.4700	1.4300	.7410	.2860	-.0300	-.1110	-.1920	-.1580	.3700	-.1510	-.5650	-.0220	-.0510	-.0180	-.1250
120.000	1.4700		.7230	.2790	-.0410	-.1120	-.1920	-.1620	.3120	.1560	-.1850	.0210	.0850	.1100	-.0670
135.000	1.4700							-.1770		.2800		-.0990		.0740	
150.000	1.4700		.6840	.2430	-.0680	-.1440	-.2180	-.1880	.0170	.3650	.1340	-.0380	.0350	.0740	.0110
165.000	1.4700			.2190	-.0860	-.1590	-.2300	-.1980	.0700	.3980	.1240		-.0660		.0000
180.000	1.4700	1.3430	.6280	.1920	-.1040	-.1740	-.2440	-.2100	.0140	.4590	.0560	-.0280	-.1260	-.0080	-.0370
270.000	1.4700	1.2480													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0210	-.0200	-.0150
30.000	-.0200	-.0180	.0110
60.000	.0040	-.0200	.0120
90.000			-.1240
120.000	.0190	.2910	.1340
135.000	-.0440	.3150	.1050
150.000	-.0800	.2970	.0880
165.000		.2710	.0810
180.000	-.1790		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT07)

MACH (5) = 1.398 BETAT (4) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4840	1.3390	.6270	.1910	-.1060	-.1670	-.2460	-.2180	-.1540	.1750	.1190	-.0590	-.1430	-.0880	.0090
30.000	1.4840		.6280	.1840	-.1050	-.1660	-.2480	-.2150	-.1050	.0540	.0730	-.1160	-.0900	-.0390	-.0400
60.000	1.4840		.6330	.1920	-.0990	-.1680	-.2440	-.2140	.1210	.1420	-.3300	-.1090	.0180	.0290	-.0480
90.000	1.4840	1.3330	.6390	.1970	-.0970	-.1680	-.2420	-.2110	.3390	-.1460	-.5540	-.0370	-.0690	.0050	-.1330
120.000	1.4840		.6360	.2010	-.0950	-.1640	-.2360	-.2040	.1730	.2100	-.1390	-.0600	.0330	.0950	-.1120
135.000	1.4840							-.2050		.3590		-.1600		.0180	
150.000	1.4840		.6330	.2080	-.0930	-.1650	-.2320	-.2030	.1180	.3160	.1310	-.0110	-.0140	-.0650	-.0110
165.000	1.4840			.2050	-.0990	-.1640	-.2340	-.2050	.1280	.3540	.0900		-.1080		.0130
180.000	1.4840	1.3810	.6410	.1960	-.1000	-.1650	-.2350	-.2050	.1480	.2540	.0620	.0540	-.1220	-.0770	.0130
270.000	1.4840	1.3320													

X/LT	.7449	.8328	.9290
PHI			
.000	.0050	-.0080	.0000
30.000	.0050	-.0090	.0080
60.000	.0050	-.0220	.0070
90.000			-.0670
120.000	-.0490	.1990	.0170
135.000	-.0970	.1790	-.0190
150.000	-.1320	.1500	-.0470
165.000		.0880	-.0900
180.000	-.1350		

MACH (5) = 1.394 BETAT (5) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4760	1.3330	.6260	.1850	-.0980	-.1640	-.2530	-.2250	-.1670	.1600	.0980	-.0740	-.1640	-.0980	-.0050
30.000	1.4760		.5760	.1520	-.1310	-.1910	-.2790	-.2430	-.0090	.0550	.0660	-.1000	-.1480	-.0990	-.0820
60.000	1.4760		.5460	.1260	-.1460	-.2210	-.2880	-.2550	.0470	.1770	-.2830	-.0540	-.0040	-.0280	-.0470
90.000	1.4760	1.2540	.5430	.1200	-.1480	-.2240	-.2890	-.2530	.5020	-.1530	-.5380	-.0660	-.0850	-.0390	-.0920
120.000	1.4760		.5500	.1370	-.1400	-.2150	-.2790	-.2460	.1080	.2430	-.0670	.0180	-.0270	.0090	-.1110
135.000	1.4760							-.2430		.1040		-.1120		-.0480	
150.000	1.4760		.5890	.1690	-.1190	-.2000	-.2650	-.2340	.1190	.2420	.0390	-.0960	-.1120	-.0820	-.0910
165.000	1.4760			.1860	-.1050	-.1850	-.2550	-.2260	.1190	.2340	-.0030		-.1830		-.0900
180.000	1.4760	1.3380	.6450	.2020	-.0930	-.1690	-.2460	-.2120	.1220	.3470	-.0020	-.0520	-.1460	-.0080	-.0440
270.000	1.4760	1.4300													

X/LT	.7449	.8328	.9290
PHI			

AMES 11-FT IA9 CRA + S3 + T9 EXTERNAL TANK (RBNTOT)

MACH (5) = 1.394 BETAT (5) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0190	-.0260	-.0160
30.000	-.0190	-.0120	-.0170
60.000	.0110	-.0170	-.0170
90.000			-.0450
120.000	-.0870	.0280	-.0450
135.000	-.1450	-.0150	-.0890
150.000	-.1980	-.0620	-.1380
165.000		-.0810	-.1470
180.000	-.1850		

MACH (5) = 1.398 BETAT (6) = 8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2538	.2874	.3412	.3950	.4489	.5027	.5565	.8378
PHI															
.000	1.4380	1.2980	.5970	.1700	-.1170	-.1800	-.2640	-.2390	-.1850	.0770	.0480	-.1130	-.1380	-.1130	-.0780
30.000	1.4380		.5040	.0930	-.1710	-.2260	-.3010	-.2800	-.0890	.1430	.0480	-.1880	-.1990	-.1190	-.0890
60.000	1.4380		.4540	.0550	-.1960	-.2570	-.3210	-.2920	.0040	.2350	-.2090	-.0060	-.0570	-.1000	-.1360
90.000	1.4380	1.2390	.4490	.0490	-.2000	-.2680	-.3240	-.2820	.4420	-.1130	.3180	-.0480	-.1250	-.0970	-.0810
120.000	1.4380		.4550	.0620	-.1910	-.2560	-.3180	-.2790	.0240	.3430	-.0310	-.0540	-.1140	-.0810	-.1440
135.000	1.4380							-.2780		.0690		-.1090		-.0980	
150.000	1.4380		.3170	.1110	-.1640	-.2320	-.2950	-.2620	.0960	.3090	-.0120	-.1790	-.1860	-.1210	-.1480
165.000	1.4380			.1400	-.1380	-.2090	-.2750	-.2440	.0810	.3290	-.0970		-.2490		-.1810
180.000	1.4380	1.3170	.8130	.1840	-.1140	-.1820	-.2510	-.2220	-.0240	.4490	-.0980	-.1590	-.2440	-.1870	-.1960
270.000	1.4380	1.4710													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0630	-.0580	-.0380
30.000	-.0420	-.0300	-.0310
60.000	.0080	-.0380	-.0370
90.000			-.0710
120.000	-.1830	-.0330	-.0710
135.000	-.2130	.0140	-.1480
150.000	-.2180	-.0110	-.2070
165.000		-.2840	-.2280
180.000	-.2580		

DATE 24 SEP 75 TABULATED PRESSURE DATA - TA39

ANES 11-707 TA9 CFA + 53 + T9 EXTERNAL TANK (RSMTCR) 22 APR 75

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5330 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
BJTOER = .000 ELEVON = .000
BJTFLR = .000

MACH (1) = .599 BETAT (1) = -8.000

SECTION 1 EXTERNAL TANK DEPENDENT VARIABLE CP

X/L	.0000	.0009	.0452	.1098	.1744	.1903	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0160	.9520	.2810	-.1580	-.3410	-.3290	-.2420	-.1470	-.0980	-.1040	-.1000	-.0960	-.0840	-.0820	-.0800
30.000	1.0180		.4760	-.0850	-.2700	-.2670	-.1880	-.0980	-.0830	-.1080	-.0980	-.0740	-.0550	-.0530	-.0810
90.000	1.0130		.4890	.0340	-.1580	-.1550	-.0740	.0240	-.0340	-.2280	-.0950	-.0540	-.0170	-.0190	-.0270
90.000	1.0160	1.0420	.3700	.0370	-.1310	-.1130	.0000	.1290	.2020	-.0250	-.0930	-.0110	.0010	.0030	.0140
120.000	1.0160		.4190	-.0270	-.2030	-.1870	-.0760	.0140	-.0050	-.1780	-.0310	-.0050	-.0080	.0010	.0190
135.000	1.0180							-.0520		-.0350		-.0030		-.0080	
150.000	1.0140		.2930	-.1280	-.2720	-.2700	-.1720	-.0740	.0100	.0451	-.0310	-.0280	-.0520	-.0480	.0080
165.000	1.0180			-.0970	-.3230	-.2930	-.1790	-.0870	.0360	.0910	-.0380		-.1410		-.0620
180.000	1.0140	.8530	.0730	-.2420	-.3410	-.3040	-.1960	-.0820	.0480	.0830	-.1710	-.1980	-.2140	-.2080	-.1550
270.000	1.0130	.7150													

X/L	.7449	.8528	.9290
PHI			
.000	-.1030	-.1280	-.3750
30.000	-.0570	-.1090	-.4100
90.000	-.0220	-.0930	-.3980
90.000			-.3220
120.000	.1020	-.0070	-.4940
135.000	.1080	.0180	-.5180
150.000	.1170	.0400	-.5360
165.000		.0030	-.4880
180.000	-.0310		

MACH (1) = .990 BETAT (2) = -8.000

SECTION 1 EXTERNAL TANK DEPENDENT VARIABLE CP

X/L	.0000	.0009	.0452	.1098	.1744	.1903	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0480	.9980	.3080	-.1340	-.3200	-.3150	-.2160	-.1180	-.0740	-.0740	-.0780	-.0640	-.0610	-.0580	-.0330
30.000	1.0480		.3980	-.0770	-.2630	-.2660	-.1720	-.0780	-.0530	-.0830	-.0740	-.0560	-.0440	-.0340	-.0610
90.000	1.0440		.4570	-.0030	-.1220	-.1790	-.0800	.0210	.0060	-.0220	-.0740	-.0510	-.0300	-.0190	-.0270
120.000	1.0440	1.0710	.4570	-.0085	-.1660	-.1330	-.0650	.1230	.2060	-.0220	-.0760	-.0210	-.0030	.0110	.0230
135.000	1.0440		.4330	-.0620	-.2110	-.1910	-.0780	.0140	.0520	-.0980	-.0410	-.0130	-.0030	-.0080	.0080
150.000	1.0440							-.0740				-.0040		-.0080	
165.000	1.0440		.3130	-.1210	-.2610	-.2540	-.1540	-.0740	.0100	.0450	-.0310	-.0280	-.0520	-.0480	.0080
180.000	1.0440	.8530	.0730	-.2420	-.3410	-.3040	-.1960	-.0820	.0480	.0830	-.1710	-.1980	-.2140	-.2080	-.1550
270.000	1.0440	.7150													

X/L	.7449	.8528	.9290
PHI			
.000	-.1030	-.1280	-.3750
30.000	-.0570	-.1090	-.4100
90.000	-.0220	-.0930	-.3980
90.000			-.3220
120.000	.1020	-.0070	-.4940
135.000	.1080	.0180	-.5180
150.000	.1170	.0400	-.5360
165.000		.0030	-.4880
180.000	-.0310		

AXES 11-707 2A9 CPA + 33 + 79 EXTERNAL TANK (REMTOB)

MACH (1) = .558 BETAT (2) = -8.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L*	.0000	.0009	.0452	.1088	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
180.000	1.0348			-.1440	-.3140	-.2320	-.1810	-.0660	.0630	.1010	-.2640		-.1490		-.0360
185.000	1.0340	.8970	.1890	-.2230	-.3240	-.2920	-.1640	-.0440	.0740	.1410	-.2360	-.1370	-.1910	-.1440	-.0
270.000	1.0440	.7890													

X/LT	.7443	.8528	.9290
PHI			
.000	-.0710	-.0960	-.3380
30.000	-.0380	-.0630	-.3780
60.000	-.0180	-.0780	-.3770
90.000			-.4700
120.000	.0800	-.0170	-.4690
135.000	.0820	.0000	-.4720
150.000	.1060	.0110	-.4900
185.000		-.0330	-.3990
180.000	-.0100		

MACH (1) = .596 BETAT (3) = -4.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1088	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0710	1.0050	.3240	-.1270	-.3040	-.3000	-.2100	-.1060	-.0630	-.0680	-.0680	-.0580	-.0500	-.0490	-.0290
30.000	1.0710		.3770	-.0940	-.2730	-.2610	-.1800	-.0750	-.0560	-.0770	-.0660	-.0540	-.0410	-.0310	-.0430
60.000	1.0710		.4270	-.0460	-.2120	-.2010	-.0940	.0140	.0110	-.2270	-.0910	-.0460	-.0380	-.0240	-.0290
90.000	1.0710	1.0410	.3930	-.0590	-.1890	-.1660	-.0640	.1080	.2060	-1.0820	-.0910	-.0490	-.0310	-.0210	-.0060
120.000	1.0710		.3420	-.0990	-.2410	-.2220	-.0830	-.0010	.0060	- 1970	-.0660	-.0440	-.0400	-.0350	-.0090
135.000	1.0710							-.0410		-.0480		-.0420		-.0340	
150.000	1.0710		.2700	-.1510	-.2650	-.2640	-.1510	-.0510	.0410	.0250	-.0240	-.0440	-.0590	-.0520	-.0040
185.200	1.0710			-.1830	-.3040	-.2730	-.1510	-.0550	.0720	.0960	-.0200		-.0820		-.0100
180.000	1.0710	.9010	.2130	-.2070	-.3110	-.2820	-.1650	-.0510	.0840	.0960	-.0610	-.1030	-.1120	-.1030	-.0450
270.000	1.0710	.8590													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0480	-.0870	-.3150
30.000	-.0340	-.0690	-.3490
60.000	-.0210	-.0760	-.3530
90.000			-.4190
120.000	.0390	-.0480	-.3960
135.000	.0730	-.0340	-.4360
150.000	.0860	-.0280	-.4490

AMES 11-707 IA9 O2A + S3 + T9 EXTERNAL TANK (RBMT08)

MACH (1) = .596 BETAT (3) = -4.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.0850	-.3380
180.000	.0250		

MACH (2) = .597 BETAT (4) = -2.010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0860	1.0140	.3300	-.1200	-.2990	-.2960	-.1980	-.0970	-.0520	-.0380	-.0540	-.0510	-.0370	-.0320	-.0090
30.000	1.0860		.3530	-.1130	-.2830	-.2680	-.1720	-.0770	-.0400	-.0750	-.0520	-.0540	-.0360	-.0300	-.0390
60.000	1.0860		.3550	-.0930	-.2410	-.2140	-.1050	.0130	.0190	-.2220	-.0950	-.0480	-.0350	-.0330	-.0220
90.000	1.0860	1.0090	.3320	-.1110	-.2200	-.1320	-.0370	.1060	.2110	-1.0610	-.0970	-.0580	-.0380	-.0300	-.0130
120.000	1.0860		.2090	-.1330	-.2560	-.2310	-.0950	.0030	.0190	-.1980	-.0800	-.0560	-.0540	-.0410	-.0180
135.000	1.0860							-.0270		-.0450		-.0520		-.0400	
150.000	1.0860		.2550	-.1590	-.2850	-.2600	-.1400	-.0370	.0490	.0300	-.0430	-.0540	-.0630	-.0530	-.0050
165.000	1.0860			-.1890	-.2960	-.2620	-.1430	-.0400	.0800	.0880	-.0400		-.0800		-.0040
180.000	1.0860	.9190	.2230	-.1980	-.2980	-.2640	-.1450	-.0380	.0940	.1100	-.0420	-.0770	-.0870	-.0750	-.0170
270.000	1.0860	.9175													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0380	-.0700	-.3200
30.000	-.0290	-.0670	-.3240
60.000	-.0290	-.0690	-.3460
90.000			-.3400
120.000	.0380	-.0690	-.3770
135.000	.0360	-.0360	-.4130
150.000	.0720	-.0750	-.4150
165.000		-.1390	-.2850
180.000	.0550		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK (RUN108)

MACH (1) = .598 BETAT (5) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0920	1.0200	.3380	-.1150	-.2910	-.2860	-.2010	-.0940	-.0520	-.0560	-.0550	-.0480	-.0400	-.0380	-.0080
30.000	1.0920		.3220	-.1380	-.2990	-.2760	-.1850	-.0740	-.0410	-.0650	-.0550	-.0520	-.0420	-.0380	-.0410
60.000	1.0920		.3010	-.1400	-.2590	-.2330	-.1140	.0070	.0250	-.2180	-.1020	-.0510	-.0480	-.0370	-.0280
90.000	1.0920	.9650	.2760	-.1580	-.2390	-.2000	-.0410	.1020	.2200	-1.0950	-.1020	-.0670	-.0520	-.0420	-.0250
120.000	1.0920		.2390	-.1720	-.2680	-.2320	-.1040	.0080	.0330	-.1950	-.0880	-.0690	-.0640	-.0510	-.0280
135.000	1.0920							-.0210		-.0490		-.0680		-.0500	
150.000	1.0920		.2310	-.1800	-.2900	-.2560	-.1380	-.0290	.0560	.0170	-.0580	-.0710	-.0750	-.0600	-.0100
165.000	1.0920			-.1880	-.2980	-.2635	-.1410	-.0380	.0830	.0750	-.0580		-.0820		-.0180
180.000	1.0920	.9240	.2280	-.1930	-.2980	-.2630	-.1500	-.0320	.0950	.1110	-.0580	-.0720	-.0830	-.0630	-.0270
270.000	1.0920	.9880													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0360	-.0670	-.3140
30.000	-.0380	-.0680	-.3150
60.000	-.0320	-.0790	-.2880
90.000			-.3260
120.000	.0220	-.0780	-.3360
135.000	.0350	-.0870	-.3910
150.000	.0530	-.1210	-.3710
165.000		-.2100	-.2280
180.000	.0660		

MACH (1) = .599 BETAT (6) = 2.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0880	1.0100	.3260	-.1250	-.3070	-.2960	-.1940	-.0980	-.0500	-.0600	-.0510	-.0480	-.0340	-.0330	-.0070
30.000	1.0880		.2830	-.1670	-.3180	-.2940	-.1860	-.0780	-.0360	-.0650	-.0510	-.0580	-.0380	-.0350	-.0450
60.000	1.0880		.2450	-.1880	-.2950	-.2580	-.1140	.0040	.0370	-.2130	-.0980	-.0530	-.0440	-.0380	-.0250
90.000	1.0880	.9170	.2160	-.2040	-.2760	-.2020	-.0450	.1080	.2330	-.9560	-.0980	-.0620	-.0520	-.0500	-.0240
120.000	1.0880		.1910	-.2090	-.2910	-.2230	-.0990	.0180	.0440	-.1760	-.0920	-.0710	-.0640	-.0470	-.0250
135.000	1.0880							-.0110		-.0500		-.0770		-.0490	
150.000	1.0880		.2030	-.2070	-.3080	-.2580	-.1320	-.0230	.0570	.0060	-.0820	-.0830	-.0890	-.0680	-.0200
165.000	1.0880			-.2110	-.3070	-.2600	-.1410	-.0330	.0790	.0600	-.0860		-.1030		-.0210
180.000	1.0880	.9230	.2280	-.2040	-.3080	-.2600	-.1450	-.0320	.0940	.1120	-.0840	-.0760	-.0900	-.0670	-.0180
270.000	1.0880	1.0140													

X/LT	.7449	.8326	.9290
PHI			

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNTD8)

MACH (1) = .599 BETAT (6) = 2.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0410	-.0650	-.3080
30.000	-.0410	-.0810	-.2820
60.000	-.0290	-.0700	-.2720
90.000			-.3560
120.000	.0120	-.0850	-.2990
135.000	.0130	-.0990	-.3570
150.000	.0350	-.1550	-.3410
165.000		-.2790	-.2280
180.000	.0620		

MACH (1) = .596 BETAT (7) = 4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.0780	.9860	.3070	-.1320	-.3210	-.3110	-.2040	-.1060	-.0620	-.0650	-.0660	-.0580	-.0480	-.0480	-.0230
30.000	1.0780		.2400	-.2010	-.3450	-.3110	-.1960	-.0850	-.0380	-.0700	-.0640	-.0640	-.0510	-.0450	-.0540
60.000	1.0780		.1880	-.2330	-.3120	-.2600	-.1290	.0060	.0380	-.1980	-.1040	-.0700	-.0470	-.0360	-.0320
90.000	1.0780	.8520	.1840	-.2900	-.2850	-.2210	-.0500	.1030	.2370	-.9230	-.1300	-.0680	-.0390	-.0520	-.0300
120.000	1.0780		.1490	-.2430	-.3060	-.2400	-.1010	.0140	.0510	-.1850	-.1020	-.0680	-.0730	-.0570	-.0300
135.000	1.0780							-.0170		-.0640		-.0950		-.0680	
150.000	1.0780		.1770	-.2290	-.3220	-.2730	-.1470	-.0380	.0480	-.0230	-.1130	-.1120	-.1120	-.0920	-.0440
165.000	1.0780			-.2220	-.3210	-.2730	-.1490	-.0500	.0700	.0250	-.1200		-.1390		-.0580
180.000	1.0780	.9220	.2180	-.2060	-.3190	-.2750	-.1550	-.0470	.0830	.0950	-.1220	-.1020	-.1160	-.1050	-.0690
270.000	1.0780	1.0900													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0520	-.0850	-.3230
30.000	-.0520	-.0840	-.2790
60.000	-.0330	-.0820	-.2510
90.000			-.3530
120.000	.0050	-.0840	-.2950
135.000	.0050	-.1080	-.3180
150.000	.0070	-.1660	-.2470
165.000		-.2840	-.1780
180.000	.0280		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTOO)

MACH (1) = .398 BETAT (8) = 8.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0492	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0340	.9710	.2980	-.1480	-.3340	-.3170	-.2220	-.1200	-.0790	-.0790	-.0810	-.0700	-.0670	-.0630	-.0380
30.000	1.0340		.2010	-.2320	-.3650	-.3340	-.2120	-.0940	-.0330	-.0790	-.0820	-.0720	-.0630	-.0530	-.0880
60.000	1.0340		.1310	-.2720	-.3290	-.2660	-.1270	.0030	.0540	-.1840	-.0830	-.0680	-.0450	-.0330	-.0330
90.000	1.0340	.7910	.1030	-.2910	-.3010	-.2230	-.0490	.1060	.2510	-.8460	-.0840	-.0760	-.0600	-.0610	-.0380
120.000	1.0340		.0920	-.2790	-.3170	-.2450	-.1000	.0180	.0590	-.1730	-.0940	-.0910	-.0810	-.0810	-.0290
135.000	1.0340							-.0190		-.0710		-.1050		-.0700	
150.000	1.0340		.1310	-.2540	-.3340	-.2810	-.1320	-.0390	.0410	-.0450	-.1380	-.1400	-.1370	-.1030	-.0590
165.000	1.0340			-.2490	-.3290	-.2830	-.1590	-.0530	.0550	-.0040	-.1530		-.1810		-.1030
180.000	1.0340	.8870	.1970	-.2290	-.3220	-.2840	-.1680	-.0620	.0670	.0730	-.1570	-.1430	-.1600	-.1520	-.1030
270.000	1.0340	1.0740													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0710	-.1050	-.3640
30.000	-.0710	-.0860	-.2890
60.000	-.0300	-.0730	-.2440
90.000			-.3410
120.000	.0020	-.0890	-.2890
135.000	.0080	-.0930	-.2350
150.000	-.0020	-.1530	-.1920
165.000		-.3130	-.1660
180.000	-.0130		

MACH (1) = .399 BETAT (9) = 8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0220	.9360	.2700	-.1880	-.3450	-.3420	-.2400	-.1440	-.1030	-.1030	-.1020	-.0980	-.0880	-.0890	-.0810
30.000	1.0220		.1490	-.2720	-.3810	-.3510	-.2310	-.1110	-.0590	-.0980	-.1030	-.0920	-.0800	-.0750	-.0810
60.000	1.0220		.0710	-.3180	-.3440	-.2750	-.1280	.0030	.0800	-.1790	-.1030	-.0670	-.0590	-.0460	-.0380
90.000	1.0220	.7080	.0470	-.3270	-.3050	-.2230	-.0430	.1110	.2600	-.8010	-.1050	-.0790	-.0700	-.0720	-.0330
120.000	1.0220		.0380	-.3130	-.3220	-.2490	-.1000	.0240	.0650	-.1730	-.1170	-.1070	-.0980	-.0710	-.0320
135.000	1.0220							-.0210		-.0820		-.1220		-.0880	
150.000	1.0220		.0800	-.2870	-.3500	-.2970	-.1650	-.0520	.0300	-.0700	-.1630	-.1660	-.1630	-.1240	-.0630
165.000	1.0220			-.2710	-.3520	-.3000	-.1750	-.0740	.0310	-.0490	-.2090		-.2310		-.1500
180.000	1.0220	.8580	.1680	-.2480	-.3440	-.2990	-.1910	-.0830	.0450	.0470	-.2070	-.1990	-.2220	-.2080	-.1530
270.000	1.0220	1.0900													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT08)

MACH (1) = .599 BETAT (9) = 8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8525	.9290
PHI			
.000	-.0950	-.1320	-.4060
30.000	-.0950	-.0990	-.2910
60.000	-.0370	-.0830	-.2810
90.000			-.3730
120.000	-.0070	-.0810	-.2820
135.000	-.0060	-.0740	-.2130
150.000	.0120	-.1530	-.2130
165.000		-.2870	-.2100
180.000	-.0450		

MACH (2) = .902 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1500	1.0840	.3990	-.0960	-.4770	-.5350	-.2060	-.0540	-.0290	-.1470	-.1750	-.1040	-.0790	-.0800	-.0410
30.000	1.1500		.5230	-.0040	-.3570	-.4060	-.1850	-.0190	-.0090	-.2230	-.1480	-.0730	-.0520	-.0490	-.0500
60.000	1.1500		.6080	.0950	-.2660	-.2600	-.0450	.1130	.1450	-.3610	-.1120	-.0100	-.0210	-.0170	.0110
90.000	1.1500	1.2050	.6120	.1010	-.2500	-.1970	.0460	.2230	.3680	-.9310	-.1910	.0040	-.0030	-.0090	.0340
120.000	1.1500		.5330	.0290	-.3220	-.2670	-.0500	.0810	.1170	-.3650	-.0320	.0220	-.0140	-.0350	.0090
135.000	1.1500							.0240		-.1230		.0180		-.0940	
150.000	1.1500		.4120	-.0800	-.4410	-.4560	-.1300	-.0060	.0920	.0740	-.0300	-.0090	-.0720	-.1570	.0200
165.000	1.1500			-.1490	-.5030	-.5370	-.1280	-.0060	.1320	.2070	-.1340		-.1730		-.0440
180.000	1.1500	.9890	.2890	-.2090	-.5450	-.5820	-.1040	.0160	.1700	.2060	-.1500	-.1680	-.2580	-.3540	-.1250
270.000	1.1500	.6810													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0810	-.0910	-.2730
30.000	-.0610	-.0320	-.2330
60.000	.0210	-.0290	-.2220
90.000			-.3640
120.000	.1880	.1500	-.1690
135.000	.1880	.1880	-.1650
150.000	.1960	.2140	-.1800
165.000		.1790	-.1670
180.000	.0310		

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RUNTD8)

MACH (2) = .901 BETAT (2) = -6.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1750	1.1090	.4230	-.0880	-.4690	-.5270	-.1530	-.0270	.0000	-.1200	-.1630	-.6720	-.0510	-.0490	-.0180
30.000	1.1750		.3140	-.0280	-.3910	-.4490	-.1470	.0040	.0210	-.1850	-.0830	-.0490	-.0340	-.0330	-.0480
60.000	1.1750		.5850	.0420	-.2970	-.2770	-.0430	.1170	.1580	-.3430	-.1200	-.0100	-.0220	-.0190	.0080
90.000	1.1750	1.1890	.5560	.0390	-.3000	-.2120	.0420	.2230	.3750	-.9500	-.2420	-.0030	-.0170	-.0180	.0220
120.000	1.1750		.4870	-.0160	-.3760	-.2700	-.0430	.0930	.1330	-.3460	-.0600	.0070	-.0350	-.0710	-.0050
135.000	1.1750							.0430		-.1070		.0110		-.1090	
150.000	1.1750		.3910	-.0990	-.4670	-.4240	-.1070	.0230	.1170	.0740	-.0610	-.0020	-.0800	-.1420	.0210
165.000	1.1750			-.1590	-.5020	-.4900	-.1030	.0230	.1570	.2030	-.1740		-.1490		-.0140
180.000	1.1750	1.0120	.3080	-.2020	-.5400	-.5550	-.0860	.0370	.1890	.2360	-.2590	-.1110	-.2080	-.2250	-.0700
270.000	1.1750	.9290													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0570	-.0620	-.2450
30.000	-.0140	-.0320	-.2300
60.000	.0140	-.0260	-.2310
90.000			-.3560
120.000	.1530	.1130	-.1850
135.000	.1700	.1420	-.1880
150.000	.1780	.1570	-.2000
165.000		.0930	-.1890
180.000	.0640		

MACH (2) = .899 BETAT (3) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1950	1.1290	.4360	-.0780	-.4550	-.5370	-.1250	-.0050	.0180	-.1010	-.2690	-.0480	-.0380	-.0320	-.0080
30.000	1.1950		.4880	-.0470	-.4180	-.4860	-.1200	.0250	.0420	-.1570	-.1760	-.0370	-.0350	-.0210	-.0390
60.000	1.1950		.5140	-.0080	-.3760	-.4120	-.0370	.1230	.1690	-.3210	-.1480	-.0130	-.0270	-.0210	-.0080
90.000	1.1950	1.1810	.5010	-.0180	-.3880	-.2230	.0370	.2170	.3810	-.9560	-.2700	-.0270	-.0270	-.0310	.0030
120.000	1.1950		.4460	-.0600	-.4220	-.2760	-.0340	.1030	.1510	-.3180	-.0810	-.0170	-.0590	-.0990	-.0160
135.000	1.1950							.0620		-.0870		-.0110		-.1300	
150.000	1.1950		.3780	-.1210	-.4860	-.5170	-.0620	.0410	.1420	.0700	-.0770	-.0170	-.0980	-.1580	.0190
165.000	1.1950			-.1590	-.5170	-.5530	-.0800	.0410	.1770	.1960	-.1650		-.1330		.0050
180.000	1.1950	1.0320	.3220	-.1930	-.5400	-.5510	-.0740	.0510	.2010	.2080	-.1650	-.0700	-.1870	-.2020	-.0210
270.000	1.1950	.9900													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTD8)

MACH (2) = .899 BETAT (3) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0380	-.0470	-.2290
30.000	-.0130	-.0300	-.2240
60.000	.0190	-.0320	-.2480
90.000			-.3570
120.000	.1240	.0730	-.2080
135.000	.1420	.0830	-.2100
150.000	.1320	.0860	-.2260
165.000		-.0130	-.2230
180.000	.0980		

MACH (2) = .900 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2120	1.1400	.4430	-.0720	-.4560	-.5290	-.1000	.0080	.0330	-.0890	-.2810	-.0320	-.0250	-.0190	.0080
30.000	1.2120		.4870	-.0680	-.4390	-.5040	-.0980	.0330	.0600	-.1350	-.2500	-.0270	-.0240	-.0180	-.0330
60.000	1.2120		.4680	-.0580	-.4270	-.4460	-.0260	.1280	.1830	-.2990	-.1460	-.0100	-.0280	-.0260	-.0070
90.000	1.2120	1.1320	.4450	-.0780	-.4570	-.2230	.0440	.2230	.3930	-.9650	-.2600	-.0300	-.0340	-.0420	-.0090
120.000	1.2120		.3990	-.1060	-.4810	-.2860	-.0160	.1190	.1750	-.2870	-.1010	-.0280	-.0740	-.1080	-.0190
135.000	1.2120							.0780		-.0630		-.0240		-.1310	
150.000	1.2120		.3660	-.1370	-.5140	-.4630	-.0620	.0610	.1630	.0790	-.1210	-.0240	-.1140	-.1580	.0230
165.000	1.2120			-.1640	-.5210	-.5100	-.0630	.0570	.1920	.1940	-.2430		-.1360		.0220
180.000	1.2120	1.0900	.3360	-.1880	-.5320	-.5310	-.0630	.0600	.2110	.2470	-.2570	-.0420	-.1460	-.1660	.0080
270.000	1.2120	1.0490													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0250	-.0340	-.2130
30.000	-.0270	-.0230	-.2150
60.000	.0060	-.0350	-.2520
90.000			-.3550
120.000	.0900	.0310	-.2580
135.000	.1140	.0300	-.2410
150.000	.1290	.0060	-.2430
165.000		-.1400	-.2240
180.000	.1210		

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RUN108)

MACH (2) = .902 BETAT (5) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2170	1.1380	.4490	-.0740	-.4520	-.3410	-.1060	.0080	.0330	-.0900	-.2840	-.0350	-.0290	-.0220	.0100
30.000	1.2170		.4000	-.1250	-.5060	-.3990	-.0810	.0390	.0760	-.1040	-.4290	-.0360	-.0290	-.0290	-.0380
60.000	1.2170		.3590	-.1570	-.5090	-.5310	-.0120	.1300	.2010	-.2640	-.2240	-.0080	-.0330	-.0320	-.0120
90.000	1.2170	1.0490	.3380	-.1840	-.5300	-.2290	.0570	.2290	.4190	-.9780	-.3290	-.0390	-.0320	-.0680	-.0130
120.000	1.2170		.3100	-.1890	-.5350	-.2580	.0090	.1390	.2130	-.2320	-.1470	-.0370	-.1070	-.1080	-.0220
135.000	1.2170							.1040		-.0270		-.0440		-.1230	
150.000	1.2170		.3190	-.1840	-.5410	-.3550	-.0390	.0830	.1940	.0810	-.5920	-.0500	-.1840	-.1630	.0080
165.000	1.2170			-.1870	-.5350	-.4410	-.0490	.0700	.2070	.1800	-.6290		-.1660		.0080
180.000	1.2170	1.0370	.3490	-.1820	-.5300	-.5360	-.0620	.0620	.2110	.2480	-.6420	-.0420	-.1900	-.1530	.0100
270.000	1.2170	1.1400													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0150	-.0310	-.2140
30.000	-.0030	-.0290	-.2350
60.000	.0060	-.0340	-.2570
90.000			-.3410
120.000	.0600	-.0300	-.3030
135.000	.0740	-.0550	-.2950
150.000	.0870	-.1290	-.2780
165.000		-.3840	-.2210
180.000	.1230		

MACH (2) = .903 BETAT (6) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2040	1.1190	.4310	-.0890	-.4570	-.5330	-.1250	-.0070	.0190	-.1010	-.1920	-.0520	-.0380	-.0380	-.0090
30.000	1.2040		.3590	-.1340	-.5280	-.5870	-.0870	.0330	.0760	-.0960	-.4090	-.0390	-.0370	-.0300	-.0490
60.000	1.2040		.3050	-.2070	-.5490	-.4910	-.0060	.1300	.2080	-.2490	-.2180	-.0110	-.0370	-.0340	-.0190
90.000	1.2040	.9890	.2800	-.2350	-.5590	-.1920	.0570	.2260	.4290	-.9870	-.3230	-.0360	-.0590	-.0700	-.0200
120.000	1.2040		.2590	-.2340	-.5460	-.2100	.0170	.1450	.2250	-.2070	-.1900	-.0430	-.1240	-.1090	-.0250
135.000	1.2040							.1090		-.0200		-.0540		-.1210	
150.000	1.2040		.2830	-.2130	-.5590	-.3730	-.0360	.0830	.1970	.0710	-.6430	-.0700	-.1880	-.1720	-.0080
165.000	1.2040			-.2050	-.5530	-.5410	-.0530	.0630	.2030	.1650	-.6850		-.2040		-.0270
180.000	1.2040	1.0480	.3320	-.1900	-.5210	-.5650	-.0720	.0500	.2000	.1990	-.4620	-.0710	-.1780	-.1890	-.0240
270.000	1.2040	1.1700													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTD8)

MACH (2) = .903 BETAT (6) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0330	-.0480	-.2210
30.000	-.0330	-.0380	-.2440
60.000	.0020	-.0380	-.2630
90.000			-.3510
120.000	.0330	-.0480	-.3110
135.000	.0340	-.0700	-.2560
150.000	.0690	-.1380	-.2430
165.000		-.2600	-.1760
180.000	.1030		

MACH (2) = .904 BETAT (7) = 6.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1790	1.0990	.4160	-.0910	-.4640	-.5140	-.1470	-.0260	-.0010	-.1250	-.1720	-.0620	-.0540	-.0970	-.0180
30.000	1.1790		.3230	-.1870	-.5490	-.6060	-.0710	.0270	.0750	-.0940	-.3480	-.0580	-.0430	-.0490	-.0570
60.000	1.1790		.2540	-.2540	-.5850	-.4200	-.0090	.1240	.2110	-.2320	-.2100	-.0370	-.0380	-.0450	-.0130
90.000	1.1790	.9280	.2220	-.2790	-.5940	-.1640	.0620	.2190	.4400	-.9700	-.2850	-.0380	-.0210	-.0970	-.0270
120.000	1.1790		.2070	-.2750	-.5920	-.1650	.0280	.1470	.2360	-.1900	-.1980	-.0520	-.040	-.1080	-.0290
135.000	1.1790							.1140		-.0140		-.0620		-.1170	
150.000	1.1790		.2400	-.2450	-.5750	-.2980	-.0360	.0830	.1990	.0620	-.6420	-.0930	-.2180	-.1850	-.0110
165.000	1.1790			-.2280	-.5550	-.4500	-.0610	.0570	.1960	.1480	-.5330		-.2480		-.0590
180.000	1.1790	1.0200	.3080	-.2030	-.5260	-.5440	-.0880	.0360	.1850	.2350	-.4730	-.1140	-.2170	-.2260	-.0670
270.000	1.1790	1.1900													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0900	-.0380	-.2470
30.000	-.0500	-.0440	-.2500
60.000	-.0010	-.0420	-.2560
90.000			-.3440
120.000	.0440	-.0450	-.2990
135.000	.0560	-.0620	-.2710
150.000	.0680	-.1390	-.2130
165.000		-.2340	-.2340
180.000	.0700		

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RUN708)

MACH (2) = .901 BETAT (8) = 8.230

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1520	1.0670	.3950	-.1080	-.4610	-.5380	-.2360	-.0560	-.0380	-.1500	-.1840	-.1100	-.0890	-.0820	-.0300
30.000	1.1520		.2780	-.2250	-.5770	-.6430	-.0910	.0130	.0610	-.0900	-.3510	-.0730	-.0670	-.0570	-.0770
60.000	1.1520		.1930	-.3010	-.6180	-.3140	-.0240	.1070	.2080	-.2230	-.2110	-.0490	-.0570	-.0500	-.0290
90.000	1.1520	.8530	.1650	-.3300	-.6250	-.1490	.0400	.1890	.4530	-.9320	-.2550	-.0350	-.0650	-.1140	-.0480
120.000	1.1520		.1540	-.3220	-.6280	-.1690	.0200	.1310	.2410	-.1710	-.3500	-.0630	-.1580	-.1240	-.0420
135.000	1.1520							.1060		-.0150		-.0720		-.1490	
150.000	1.1520		.2000	-.2800	-.5920	-.4170	-.0440	.0690	.1940	.0440	-.6710	-.1180	-.2540	-.2020	-.0290
165.000	1.1520			-.2580	-.5780	-.6430	-.0720	.0370	.1800	.1220	-.5060		-.3090		-.1180
180.000	1.1520	.9950	.2880	-.2170	-.5490	-.6030	-.1090	.0090	.1640	.2220	-.4540	-.1760	-.2710	-.3770	-.1380
270.000	1.1520	1.2060													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0620	-.0980	-.2800
30.000	-.0400	-.0700	-.2910
60.000	.0070	-.0630	-.2900
90.000			-.3590
120.000	.0370	-.0600	-.2890
135.000	.0480	-.0550	-.2430
150.000	.0790	-.1940	-.2430
165.000		-.2920	-.2330
180.000	.0290		

MACH (3) = 1.099 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2790	1.2180	.3770	.1150	-.2350	-.3110	-.4070	-.3480	.1200	.0790	-.1030	-.2240	-.1380	-.1010	-.0430
30.000	1.2790		.6880	.1990	-.1580	-.2350	-.3440	-.2720	.1380	.0120	-.2190	-.0430	-.0390	-.0390	-.0910
60.000	1.2790		.7610	.2750	-.0960	-.1820	-.2910	.0490	.3160	-.0590	-.4780	.0170	.0420	.0130	-.0210
90.000	1.2790	1.3240	.7640	.2790	-.0960	-.1890	-.2920	.2310	.5090	-.4900	-.3790	.0200	.0430	-.0210	-.0810
120.000	1.2790		.6900	.2190	-.1560	-.2370	-.3330	-.0570	.2530	-.1100	-.1610	.1120	.1380	.0690	-.1190
135.000	1.2790							-.2870		.0700		.1390		.0370	
150.000	1.2790		.5820	.1240	-.2350	-.3180	-.3970	-.3570	.2260	.2510	-.1450	.1090	.1260	-.0330	-.1420
165.000	1.2790			.0640	-.2790	-.3510	-.4330	-.3890	.2400	.3950	-.1450		.0390		-.2290
180.000	1.2790	1.1290	.4790	.0180	-.3080	-.3840	-.4670	-.1140	.2240	.4180	-.1690	-.2200	-.0130	-.1910	-.3520
270.000	1.2790	1.0140													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-707 IA9 OEA + S3 + 79 EXTERNAL TANK (RBMT08)

MACH (3) = 1.099 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8328	.9290
PHI			
.000	-.0820	-.0470	-.0850
30.000	-.0250	.0130	-.0550
60.000	.0250	.0430	-.0550
90.000			-.1720
120.000	.2180	.3120	.1000
135.000	.2280	.3570	.1110
150.000	.2390	.3900	.0950
165.000		.3740	.1080
180.000	.0720		

MACH (3) = 1.100 BETAT (2) = -6.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1903	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5583	.6372
PHI															
.000	1.3010	1.2390	.5990	.1260	-.2200	-.3000	-.3960	-.3430	.1610	.1260	-.0690	-.2520	-.1210	-.0330	.0090
30.000	1.3010		.6780	.1830	-.1730	-.2510	-.3550	-.2870	.1760	.0660	-.1710	-.0550	-.0480	-.0380	-.0390
60.000	1.3010		.7230	.2380	-.1330	-.2170	-.3200	-.1100	.3310	-.0340	-.4960	.0230	.0310	.0030	-.0020
90.000	1.3010	1.3090	.7140	.2290	-.1370	-.2270	-.3270	.1390	.5190	-.4860	-.3970	.0280	.0480	-.0090	-.0420
120.000	1.3010		.6520	.1810	-.1840	-.2650	-.3560	-.1660	.2910	-.0770	-.1730	.1160	.1230	.0440	-.1400
135.000	1.3010							-.3330		.1090		.1510		.0190	
150.000	1.3010		.5670	.1070	-.2440	-.3230	-.4050	-.3650	.2540	.2680	-.1680	.1290	.1190	-.0340	-.1400
165.000	1.3010			.0630	-.2770	-.3490	-.4320	-.1580	.2260	.4010	-.1780		.0690		-.2110
180.000	1.3010	1.1480	.4880	.0260	-.3020	-.3740	-.4330	-.0730	.1980	.4090	-.2010	-.1120	.0250	-.1370	-.2790
270.000	1.3010	1.0740													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0390	-.0200	-.0310
30.000	-.0290	.0080	-.0350
60.000	.0080	.0290	-.0640
90.000			-.1910
120.000	.1890	.2680	.0830
135.000	.1950	.3040	.0830
150.000	.2160	.3270	.0660
165.000		.2780	.0660
180.000	.1230		

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK (REVTOB)

MACH (3) = 1.150 BETAT (3) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3200	1.2360	.6100	.1370	-.2170	-.2960	-.3940	-.3300	.1900	.1560	-.0480	-.2920	-.1000	-.0050	.0360
30.000	1.3200		.6570	.1660	-.1900	-.2660	-.3680	-.2980	.1950	.1090	-.1350	-.0920	-.0580	.0090	-.0170
60.000	1.3200		.6790	.1930	-.1670	-.2470	-.3480	-.1670	.3450	-.0120	-.4720	.0210	.0350	.0180	.0050
90.000	1.3200	1.2850	.6650	.1780	-.1770	-.2650	-.3620	.0960	.5300	-.4920	-.4130	.0640	.0800	.0080	-.0380
120.000	1.3200		.6120	.1410	-.2170	-.2950	-.3830	-.2060	.3090	-.0510	-.3270	.1440	.1220	.0250	-.1670
135.000	1.3200							-.3300		.1320		.1790		.0040	
150.000	1.3200		.5510	.0890	-.2620	-.3340	-.4160	-.1510	.2140	.2840	-.1920	.1740	.1240	-.0380	-.1870
165.000	1.3200			.0590	-.2840	-.3540	-.4350	-.0400	.1680	.3950	-.2220		.0940		-.1980
180.000	1.3200	1.1680	.5010	.0270	-.3020	-.3700	-.1690	-.0060	.0980	.3970	-.2210	-.0530	.0630	-.1010	-.2350
270.000	1.3200	1.1300													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0990	-.0400	-.0080
30.000	-.0890	-.0090	-.0250
60.000	.0010	.0070	-.0850
90.000			-.2090
120.000	.1280	.2090	.0350
135.000	.1580	.2330	.0490
150.000	.1950	.2380	.0250
165.000		.1140	.0240
180.000	.1380		

MACH (3) = 1.099 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3310	1.2840	.6180	.1380	-.2130	-.2980	-.3920	-.3310	.1910	.1730	-.0330	-.2470	-.0810	.0380	.0470
30.000	1.3310		.6530	.1660	-.2000	-.2840	-.3640	-.3170	.1880	.1380	-.1070	-.1670	-.0470	.0330	-.0140
60.000	1.3310		.6530	.1500	-.2090	-.2860	-.3820	-.2280	.3390	.0110	-.4520	.0070	.0250	.0280	.0020
90.000	1.3310	1.2980	.6120	.1320	-.2170	-.3010	-.3950	.0490	.5410	-.4970	-.4180	.0630	.0390	.0040	-.0430
120.000	1.3310		.3710	.1030	-.2450	-.3210	-.4100	-.0620	.3140	-.0240	-.4020	.1650	.1100	.0000	-.1930
135.000	1.3310							-.0580		.1580		.1950		-.0200	
150.000	1.3310		.5580	.0770	-.2740	-.3480	-.4280	-.0210	.1580	.3000	-.2000	.1730	.1120	-.0500	-.1930
165.000	1.3310			.0350	-.2870	-.3570	-.3300	-.0120	.1150	.3610	-.2220		.0920		-.1750
180.000	1.3310	1.1790	.3100	.0340	-.2950	-.3660	-.1090	.0100	.1100	.3360	-.2260	.0250	.0810	-.0880	-.2020
270.000	1.3310	1.1800													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-797 1A9 ORA + 55 + 79 EXTERNAL TANK (RBNT08)

MACH (3) = 1.099 BETAT (4) = -2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0470	-.0380	-.0290
30.000	-.0230	-.0180	-.0300
60.000	.0910	-.0120	-.0930
90.000			-.2030
120.000	.0900	.1570	-.0690
135.000	.1310	.1510	.0020
150.000	.1540	.1320	-.1190
165.000		-.0530	-.0490
180.000	.1490		

MACH (3) = 1.199 BETAT (5) = 2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3990	.4489	.5027	.5585	.6372
PHI															
.000	1.3300	1.2800	.8180	.1390	-.2140	-.2970	-.3910	-.3290	.1750	.1680	-.0350	-.2450	-.0820	.0330	.0340
30.000	1.3300		.5780	.1020	-.2570	-.3240	-.4150	-.3500	.1530	.1370	-.0970	-.2210	-.0840	.0300	-.0070
60.000	1.3300		.5380	.0680	-.2890	-.3440	-.4330	-.0600	.2300	.0630	-.3950	-.0290	-.0490	.0240	-.0080
90.000	1.3300	1.1750	.5140	.0390	-.2680	-.3660	-.4520	.0030	.5770	-.4990	-.3630	.0320	.0170	-.0210	-.0090
120.000	1.3300		.4900	.0280	-.3010	-.3740	-.4520	-.0090	.2410	.0330	-.3720	.1090	.0690	-.0610	-.2340
135.000	1.3300							-.0190		.2040		.0680		-.0740	
150.000	1.3300		.4930	.0340	-.3010	-.3740	-.1580	-.0020	.1090	.2340	-.1520	.0160	.0580	-.0930	-.2330
165.000	1.3300			.0370	-.2960	-.3720	-.0810	.0050	.1250	.2500	-.1900		.0840		-.2140
180.000	1.3300	1.1800	.5120	.0390	-.2950	-.3640	-.1730	-.0050	.1100	.3530	-.2350	-.1620	.0850	-.0620	-.2010
270.000	1.3300	1.2800													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0390	-.0320	-.0360
30.000	-.0170	-.0390	-.0640
60.000	.0340	-.0190	-.0800
90.000			-.1130
120.000	.0730	.0300	-.0670
135.000	.0920	.0100	-.0850
150.000	.1110	-.0330	-.1240
165.000		-.2280	-.1770
180.000	.1490		

AMES 11-7ft 149 CRA + 33 + 79 EXTERNAL TANK (REWTDa)

MACH (5) = 1.797 BETAT (8) = 6.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3200	1.2410	.8030	.1530	-.2190	-.2990	-.3940	-.3370	.1710	.1310	-.0530	-.2310	-.1170	-.1070	.0420
30.000	1.3200		.5810	.0790	-.2710	-.3490	-.4520	-.3510	.1490	.1220	-.0630	-.2290	-.0990	.0000	-.0570
60.000	1.3200		.4900	.0240	-.3610	-.3790	-.4410	-.3220	.1350	.0980	-.0820	-.1430	.0740	.0170	-.0130
90.000	1.3200	1.1240	.4870	-.0760	-.3130	-.3910	-.4420	-.3190	.0640	-.4090	-.2490	-.0210	-.0430	-.0370	-.0910
120.000	1.3200		.4490	-.0980	-.3270	-.3940	-.4170	-.0290	.1620	.0710	-.3410	.0530	.0470	-.1410	-.2380
135.000	1.3200							-.0170		.1920		.0290		-.0990	
150.000	1.3200		.3850	.0090	-.3220	-.3480	-.3460	-.0030	.1120	.2790	-.2170	.0280	.0240	-.1330	-.2870
165.000	1.3200			.0210	-.3110	-.3830	-.3980	-.0010	.1000	.2790	-.3040		.0350		-.2830
180.000	1.3200	1.1770	.5070	.0360	-.2960	-.3680	-.2570	-.0260	.1210	.4150	-.3050	-.1770	.0680	-.1080	-.2350
270.000	1.3200	1.2870													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0320	-.0360	-.0210
30.000	-.0290	-.0180	-.0990
60.000	.0350	.0070	-.0820
90.000			-.1610
120.000	.0790	.0030	-.1290
135.000	.0950	.0150	-.1240
150.000	.1080	-.0180	-.1580
165.000		-.1260	-.1670
180.000	.1420		

MACH (5) = 1.1.0 BETAT (7) = 6.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3030	1.2310	.5950	.1270	-.2240	-.3020	-.4020	-.3390	.1540	.1180	-.0950	-.2490	-.1290	-.0800	.0000
30.000	1.3030		.5090	.0460	-.2950	-.3610	-.4520	-.2490	.1200	.1330	-.0860	-.2360	-.1130	-.0210	-.0580
60.000	1.3030		.4470	-.0150	-.3310	-.3970	-.4770	-.0300	.0850	.1420	-.3170	-.1130	-.0890	-.0050	-.0690
90.000	1.3030	1.0740	.4140	-.0440	-.3440	-.4190	-.1980	-.0420	.6170	-.4670	-.1840	-.0570	-.0150	-.0470	-.1340
120.000	1.3030		.4020	-.0420	-.3470	-.4150	-.0790	-.0400	.1070	.1020	-.2980	-.0410	.0320	-.0990	-.2890
135.000	1.3030							-.0240		.1680		.0040		-.1210	
150.000	1.3030		.4320	-.0110	-.3350	-.4050	-.0380	-.0120	.1020	.2490	-.2460	.0420	.0020	-.1720	-.3110
165.000	1.3030			.0030	-.3210	-.3940	-.0600	-.0190	.0790	.2840	-.3560		-.0061		-.3580
180.000	1.3030	1.1320	.4930	.0250	-.3050	-.3740	-.3710	-.0440	.1270	.4250	-.3650	-.1700	.0320	-.1340	-.2890
270.000	1.3030	1.3100													

X/LT	.7440	.8328	.9290
PHI			

AMES 11-707 IA9 C2A + S5 + T9 EXTERNAL TANK (RBNTD8)

MACH (3) = 1.199 BETAT (7) = 6.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0580	-.0130	-.0520
30.000	-.0190	-.0030	-.0530
60.000	.0400	.0080	-.0780
90.000			-.1600
120.000	.0810	.0150	-.1260
135.000	.1020	.0050	-.1710
150.000	.1000	-.1500	-.1710
165.000		-.2640	-.2100
180.000	.1200		

MACH (3) = 1.101 BETAT (8) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0070	.0089	.0452	.1038	.1744	.1903	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2790	1.2030	.5770	.1160	-.2320	-.3140	-.4070	-.3510	.1160	.0680	-.1100	-.1970	-.1440	-.1100	-.0390
30.000	1.2790		.4690	.0200	-.3200	-.3870	-.4740	-.1030	.1110	.1260	-.1090	-.2430	-.1370	-.0480	-.0480
60.000	1.2790		.3930	-.0530	-.3620	-.4200	-.2770	-.0610	.0200	.1590	-.2780	-.1610	-.0990	-.0380	-.0580
90.000	1.2790	1.0100	.3680	-.0800	-.3730	-.4400	-.1180	-.0530	.5930	-.4490	-.1080	-.1630	-.0290	-.0710	-.1780
120.000	1.2790		.3580	-.0780	-.3740	-.4360	-.0750	-.0490	.0550	.1270	-.0860	-.1010	.0140	-.1270	-.3250
135.000	1.2790							-.0330		.1960		-.0260		-.1540	
150.000	1.2790		.3960	-.0420	-.3590	-.4240	-.0480	-.0280	.0720	.2270	-.2970	-.0220	-.0310	-.2160	-.3520
165.000	1.2790			-.0170	-.3410	-.4150	-.0820	-.0520	.0770	.2890	-.4220		-.0500		-.4440
180.000	1.2790	1.1320	.4720	.0130	-.3170	-.3850	-.4590	-.0650	.1390	.4150	-.4200	-.2120	.0040	-.2090	-.3470
270.000	1.2790	1.3260													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0730	-.0330	-.0850
30.000	-.0110	-.0090	-.0860
60.000	.0370	.0060	-.0890
90.000			-.1650
120.000	.0640	.0270	-.1640
135.000	.0830	.0030	-.1950
150.000	.0630	-.2080	-.2160
165.000		-.2490	-.2160
180.000	.0570		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7ft IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT08)

MACH (3) = 1.248 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3600	1.2930	.6380	.1870	-.1400	-.2140	-.3070	-.2700	-.1660	.1190	.0140	-.1330	-.1330	-.1130	-.0570
30.000	1.3600		.7430	.2830	-.0660	-.1410	-.2420	-.2010	.1000	.0370	-.1610	-.1630	-.0070	-.0470	-.0670
60.000	1.3600		.8170	.3440	-.0090	-.0980	-.1990	-.1540	.3390	.0620	-.4140	-.0620	.0360	.0300	-.0010
90.000	1.3600	1.4020	.8220	.3440	-.0060	-.1000	-.1980	-.1540	.5550	-.3010	-.4050	-.0190	.0350	.0130	-.0570
120.000	1.3600		.7530	.2920	-.0610	-.1470	-.2330	-.1900	.2360	-.0540	-.2130	.0400	.0770	.1080	-.0340
135.000	1.3600							-.2260		.1030		.0260		.0780	
150.000	1.3600		.6420	.1950	-.1430	-.2200	-.3000	-.2630	.0850	.3150	.0125	-.0140	.1690	.0580	-.0240
165.000	1.3600			.1370	-.1820	-.2570	-.3300	-.2970	.1150	.4730	.0240		.0310		-.0690
180.000	1.3600	1.2050	.5320	.0680	-.2140	-.2870	-.3610	-.3240	.0990	.4760	.0210	-.2670	-.1120	-.0010	-.2140
270.000	1.3600	1.0900													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0600	-.0110	-.0250
30.000	-.0590	.0110	.0080
60.000	.0040	.0160	.0090
90.000			-.1990
120.000	.1140	.3640	.1910
135.000	.0620	.4050	.2280
150.000	-.0240	.4520	.2260
165.000		.4630	.2200
180.000	-.2970		

MACH (4) = 1.250 BETAT (2) = -6.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3840	1.3170	.6570	.2000	-.1280	-.2040	-.2970	-.2590	-.1810	.1850	.0530	-.1410	-.1550	-.0990	-.0340
30.000	1.3840		.7340	.2720	-.0740	-.1510	-.2500	-.2130	.1100	.0660	-.1010	-.1670	-.0140	-.0480	-.0670
60.000	1.3840		.7810	.3080	-.0400	-.1270	-.2230	-.1790	.3150	.0790	-.4030	-.0280	.0380	.0190	-.0170
90.000	1.3840	1.3850	.7740	.3030	-.0430	-.1370	-.2250	-.1870	.5450	-.2970	-.4240	.0040	.0490	.0310	-.0380
120.000	1.3840		.7100	.2530	-.0880	-.1720	-.2530	-.2100	.2270	-.0090	-.2860	.0220	.0440	.0890	-.0480
135.000	1.3840							-.2410		.1600		.0060		.0650	
150.000	1.3840		.6250	.1780	-.1490	-.2280	-.3020	-.2690	.1600	.3300	.0000	-.0750	.1790	.0860	-.0490
165.000	1.3840			.1360	-.1780	-.2550	-.3280	-.2930	.1200	.4550	.0040		.1030		-.1040
180.000	1.3840	1.2240	.5470	.1020	-.2030	-.2760	-.3470	-.2990	.1340	.4300	-.1100	-.2050	-.0550	.0490	-.1810
270.000	1.3840	1.1490													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-7X7 IA9 OEA + S3 + T9 EXTERNAL TANK (RUNTO8)

MACH (4) = 1.250 BETAT (2) = -6.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0410	-.0250	-.0270
30.000	-.0160	-.0030	-.0030
60.000	.0050	.0020	-.0170
90.000			-.2060
120.000	.0340	.3110	.1470
135.000	.0000	.3620	.1790
150.000	-.0650	.3890	.1730
165.000		.3510	.1990
180.000	-.2540		

MACH (4) = 1.249 BETAT (3) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4030	1.3330	.8680	.2090	-.1220	-.1940	-.2810	-.2590	-.1800	.2290	.0790	-.1270	-.1820	-.0880	-.0040
30.000	1.4030		.7150	.2520	-.0910	-.1640	-.2590	-.2180	.0940	.0980	-.0600	-.1840	-.0310	-.0470	-.0840
60.000	1.4030		.7370	.2690	-.0720	-.1530	-.2450	-.2030	.2780	.0980	-.3670	-.0160	.0910	.0120	-.0310
90.000	1.4030	1.3840	.7260	.2580	-.0820	-.1680	-.2540	-.2180	.5420	-.2980	-.4250	.0080	.0940	.0330	-.0530
120.000	1.4030		.6750	.2200	-.1160	-.1980	-.2730	-.2340	.2420	.0470	-.3090	-.0880	.0390	.0790	-.0720
135.000	1.4030							-.2580		.2110		-.1810		.0780	
150.000	1.4030		.6160	.1650	-.1570	-.2320	-.3070	-.2730	.1830	.3670	-.0140	-.1520	.1380	.1030	-.0770
165.000	1.4030			.1340	-.1790	-.2490	-.3220	-.2870	.1790	.4240	-.0380		.0180		-.1170
180.000	1.4030	1.2480	.5830	.1040	-.1910	-.2640	-.3390	-.2990	.0950	.4110	-.0380	-.1470	-.1580	.1170	-.1480
270.000	1.4030	1.2050													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0160	-.0100	-.0200
30.000	-.0010	.0070	.0000
60.000	.0080	.0130	-.0190
90.000			-.1790
120.000	-.0070	.2650	.0800
135.000	-.0350	.2970	.0780
150.000	-.0780	.2990	.0820
165.000		.1830	.0830
180.000	-.1940		

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK (REMTOB)

MACH (4) = 1.248 BETAT (4) = -2.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4130	1.3370	.6700	.2100	-.1210	-.1960	-.2840	-.2560	-.1670	.2310	.0620	-.1240	-.1910	-.0610	.0000
30.000	1.4130		.6890	.2290	-.1120	-.1850	-.2650	-.2390	.0650	.1550	-.0200	-.1690	-.0320	-.0600	-.0420
60.000	1.4130		.6900	.2220	-.1080	-.1880	-.2770	-.2360	.2240	.1090	-.3550	-.0210	.0120	-.0170	-.0310
90.000	1.4130	1.3350	.6720	.2070	-.1220	-.2040	-.2870	-.2500	.5490	-.3000	-.4360	.0200	.0460	.0200	-.0580
120.000	1.4130		.6330	.1770	-.1470	-.2230	-.2980	-.2600	.2900	.0720	-.2900	-.0460	.0740	.0570	-.1070
135.000	1.4130							-.2780		.2330		-.0670		.0880	
150.000	1.4130		.5980	.1480	-.1720	-.2470	-.3210	-.2840	.1310	.3530	-.0200	-.1290	.0580	.1010	-.0990
165.000	1.4130			.1290	-.1850	-.2550	-.3270	-.2920	.0830	.3700	-.0410		-.0390		-.1110
180.000	1.4130	1.2550	.5700	.1110	-.1920	-.2630	-.3380	-.2310	.0910	.3030	-.0410	-.1010	-.2330	.1150	-.1280
270.000	1.4130	1.2570													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0080	-.0070	-.0100
30.000	-.0020	.0060	.0010
60.000	.0030	.0100	-.0270
90.000			-.1360
120.000	-.0360	.2120	.0350
135.000	-.0650	.2270	.0060
150.000	-.0910	.2120	.0130
165.000		.0850	.0430
180.000	-.1180		

MACH (4) = 1.248 BETAT (5) = 2.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4150	1.3340	.6690	.2080	-.1240	-.1970	-.2930	-.2540	-.1730	.2240	.1060	-.1250	-.1870	-.0690	.0040
30.000	1.4150		.6370	.1780	-.1500	-.2200	-.3160	-.2710	.0770	.1550	.0040	-.1760	-.1140	-.0700	-.0450
60.000	1.4150		.6000	.1420	-.1700	-.2510	-.3300	-.2900	.1280	.1500	-.3110	-.0200	-.0350	-.0480	-.0210
90.000	1.4150	1.2560	.5730	.1180	-.1860	-.2690	-.3440	-.3010	.5800	-.3030	-.3890	.0360	.0080	-.0060	-.0390
120.000	1.4150		.5510	.1060	-.1960	-.2730	-.3430	-.2410	.1050	.1120	-.2640	-.0060	.0090	.0400	-.1480
135.000	1.4150							-.1770		.2100		-.0790		.0390	
150.000	1.4150		.5550	.1120	-.2010	-.2740	-.3440	-.1050	.0930	.2270	-.0120	-.2020	-.0310	.0390	-.1490
165.000	1.4150			.1120	-.1990	-.2750	-.3440	-.2330	.1030	.2340	-.0720		-.1460		-.1500
180.000	1.4150	1.2640	.5740	.1140	-.1900	-.2660	-.3430	-.2930	.0940	.3730	-.1040	-.1160	-.2400	.1270	-.1350
270.000	1.4150	1.3370													

X/LT	.7449	.8328	.9290
PHI			

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMTD8)

MACH (4) = 1.246 BETAT (5) = 2.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0080	-.0120	-.0200
30.000	-.0060	-.0070	-.0380
60.000	.0100	.0090	-.0380
90.000			-.1070
120.000	-.0810	.0980	-.0790
135.000	-.0620	.0890	-.0380
150.000	-.1020	.0520	-.0620
165.000		-.0710	-.1200
180.000	-.1210		

MACH (4) = 1.246 BETAT (6) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1909	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4060	1.3190	.6560	.2030	-.1300	-.2040	-.2890	-.2590	-.1720	.2010	.0570	-.1370	-.1710	-.0820	-.0090
30.000	1.4060		.5990	.1460	-.1710	-.2390	-.3300	-.2950	.0800	.1610	.0060	-.1880	-.1290	-.0670	-.0310
60.000	1.4060		.5490	.0980	-.1980	-.2760	-.3530	-.3110	.0820	.1780	-.2770	-.0150	-.0660	-.0520	-.0230
90.000	1.4060	1.2030	.5260	.0770	-.2140	-.2940	-.3650	-.3180	.5770	-.3040	-.3250	.0120	-.0200	-.0070	-.0590
120.000	1.4060		.5080	.0720	-.2210	-.2930	-.3630	-.3180	.0850	.1720	-.2350	-.0480	-.0210	.0360	-.1630
135.000	1.4060							-.3170		.2420		-.1150		.0340	
150.000	1.4060		.5260	.0900	-.2150	-.2890	-.3620	-.3070	.0990	.2510	-.0280	-.2360	-.0770	.0140	-.1710
165.000	1.4060			.0980	-.2080	-.2820	-.3520	-.3060	.1070	.2690	-.1140		-.1640		-.1870
180.000	1.4060	1.2570	.5710	.1080	-.1990	-.2710	-.3510	-.3010	.0920	.4070	-.1140	-.1530	-.1350	.0820	-.1550
270.000	1.4060	1.3660													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0190	-.0180	-.0260
30.000	-.0180	-.0170	-.0430
60.000	.0190	-.0080	-.0430
90.000			-.1070
120.000	-.0460	.0220	-.1070
135.000	-.0190	.0100	-.0780
150.000	-.0300	-.0380	-.0790
165.000		-.1990	-.1390
180.000	-.1870		

AMES 11-7OT IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTD0)

MACH (4) = 1.247 BETAT (7) = 6.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3890	1.3080	.6500	.1970	-.1290	-.2060	-.2940	-.2610	-.1600	.1640	.0340	-.1450	-.1440	-.0950	-.0350
30.000	1.3890		.5670	.1260	-.1890	-.2570	-.3420	-.3060	-.0050	.2310	.0360	-.2010	-.1490	-.0890	-.0350
60.000	1.3890		.5030	.0600	-.2290	-.3010	-.3740	-.3350	.0340	.2280	-.2360	-.0170	-.1090	-.0390	-.0350
90.000	1.3890	1.1530	.4760	.0360	-.2450	-.3200	-.3880	-.2610	.5800	-.2930	-.2530	.0090	-.0840	-.0120	-.0710
120.000	1.3890		.4620	.0390	-.2460	-.3180	-.3840	-.1600	.0460	.1980	-.1920	-.0900	-.0790	.0180	-.1850
135.000	1.3890							-.1240		.2060		-.1430		.0140	
150.000	1.3890		.4960	.0650	-.2320	-.3060	-.3740	-.1620	.1010	.2890	-.0690	-.2550	-.0430	-.0140	-.1890
165.000	1.3890			.0780	-.2200	-.2930	-.3640	-.3230	.1090	.3040	-.1770		-.0720		-.2330
180.000	1.3890	1.2400	.5510	.1040	-.2020	-.2760	-.3500	-.3070	.1650	.4350	-.1400	-.2250	-.0410	.0480	-.1930
270.000	1.3890	1.3890													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0380	-.0320	-.0140
30.000	-.0040	-.0090	-.0160
60.000	.0480	.0410	-.0310
90.000			-.1060
120.000	.0190	.0650	-.0860
135.000	.0200	.0760	-.0770
150.000	.0310	.0440	-.1370
165.000		-.2340	-.1690
180.000	-.2580		

MACH (4) = 1.245 BETAT (8) = 8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3680	1.2820	.6330	.1850	-.1410	-.2160	-.3100	-.2720	-.1380	.0970	.0000	-.1610	-.1290	-.1240	-.0880
30.000	1.3680		.5260	.0860	-.2170	-.2840	-.3660	-.3310	.0030	.1890	.0000	-.2110	-.1500	-.1050	-.0840
60.000	1.3680		.4550	.0190	-.2620	-.3270	-.3990	-.3600	.0120	.2540	-.1940	-.0330	-.1480	-.0840	-.0520
90.000	1.3680	1.0930	.4270	-.0090	-.2760	-.3460	-.4030	-.0970	.5820	-.2780	-.1400	-.0330	-.1440	-.0190	-.0850
120.000	1.3680		.4160	-.0050	-.2760	-.3430	-.4040	-.0570	.0270	.2090	-.1650	-.1430	-.0970	.0080	-.1980
135.000	1.3680							-.0450		.1460		-.1560		-.0180	
150.000	1.3680		.4580	.0310	-.2590	-.3290	-.3940	-.2640	.1350	.2570	-.1320	-.2690	-.0250	-.0430	-.2230
165.000	1.3680			.0560	-.2400	-.3150	-.3830	-.3410	.1430	.3670	-.2190		-.1040		-.2930
180.000	1.3680	1.2170	.5400	.0910	-.2160	-.2880	-.3610	-.3250	.1060	.4890	-.2190	-.2690	-.1890	.0080	-.2010
270.000	1.3680	1.4090													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-7?? I.S. CCA + 53 + 79 EXTERNAL TANK

MACH (4) = 1.245 BETAT (8) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0550	-.0210	-.0340
30.000	.0320	-.0200	-.0550
60.000	.0670	-.0270	-.0550
90.000			-.1340
120.000	.0470	.0420	-.1330
135.000	.0150	.0400	-.1470
150.000	-.0170	-.1530	-.2030
165.000		-.2290	-.1920
180.000	-.2990		

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTD9) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 20.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .598 BETAT (1) = -8.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0050	.9820	.3350	-.1040	-.3000	-.3020	-.2190	-.1240	-.0810	-.0790	-.0870	-.0790	-.0740	-.0740	-.0510
30.000	1.0050		.4640	-.0110	-.2210	-.2230	-.1490	-.0610	-.0440	-.0780	-.0820	-.0510	-.0370	-.0300	-.0330
60.000	1.0050		.5320	.0730	-.1380	-.1350	-.0440	.0540	.0520	-.1770	-.0590	-.0110	-.0010	.0090	.0100
90.000	1.0050	1.0700	.4920	.0430	-.1370	-.1130	.0000	.1160	.1850	-.9170	-.0620	-.0400	-.0200	-.0160	.0110
120.000	1.0050		.3700	-.0580	-.2350	-.2230	-.1200	-.0410	-.0670	-.2140	-.0410	-.0050	-.0120	-.0010	.0180
135.000	1.0050							-.0930		-.0580		-.0080		-.0060	
150.000	1.0050		.2290	-.1770	-.3250	-.3120	-.1920	-.1090	-.0160	.0300	-.0070	-.0280	-.0510	-.0480	.0050
165.000	1.0050			-.2380	-.3470	-.3100	-.2000	-.1050	.0230	.0880	-.0580		-.1290		-.0610
180.000	1.0050	.7950	.1120	-.2780	-.3600	-.3240	-.2010	-.0930	.0400	.0560	-.0540	-.1820	-.2030	-.1930	-.1450
270.000	1.0050	.6930													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0940	-.1130	-.3560
30.000	-.0380	-.0760	-.3860
60.000	.0080	-.0510	-.3960
90.000			-.5270
120.000	.0970	.0200	-.4350
135.000	.1220	.0480	-.4640
150.000	.1300	.0740	-.4890
165.000		.0340	-.4400
180.000	-.0410		

MACH (1) = .597 BETAT (2) = -6.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0330	1.0160	.3650	-.0780	-.2780	-.2830	-.1970	-.1000	-.0580	-.0690	-.0630	-.0580	-.0510	-.0440	-.0200
30.000	1.0330		.4570	-.0270	-.2260	-.2260	-.1480	-.0510	-.0310	-.0600	-.0620	-.0400	-.0280	-.0200	-.0320
60.000	1.0330		.4850	.0250	-.1860	-.1570	-.0600	.0460	.0560	-.1860	-.0620	-.0250	-.0110	-.0030	.0020
90.000	1.0330	1.0510	.4390	-.0100	-.1670	-.1440	-.0170	.1050	.1860	-.9900	-.0630	-.0430	-.0450	-.0330	-.0580
120.000	1.0330		.3290	-.0980	-.2510	-.2330	-.1220	-.0400	-.0540	-.2200	-.0560	-.0250	-.0280	-.0170	-.0030
135.000	1.0330							-.0760		-.0580		-.0200		-.0200	
150.000	1.0330		.2170	-.1840	-.3210	-.2960	-.1850	-.0870	.0090	.0340	-.0110	-.0250	-.0400	-.0370	.0100

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RUN779)

MACH (1) = .997 BETAT (2) = -6.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6378
PHI															
165.000	1.0330			-.2340	-.3370	-.2980	-.1790	-.0810	.0500	.1000	-.0390		-.0930		-.0250
180.000	1.0330	.8150	.1350	-.2690	-.3390	-.3020	-.1810	-.0710	.0630	.0880	-.0450	-.1220	-.1390	-.1500	-.0830
270.000	1.0330	.7730													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0580	-.0830	-.3020
30.000	-.0230	-.0560	-.3190
60.000	.0040	-.0440	-.3660
90.000			-.4910
120.000	.0810	.0060	-.4120
135.000	.0820	.0200	-.4440
150.000	.1150	.0380	-.4730
165.000		-.0100	-.4000
180.000	.0010		

MACH (1) = .998 BETAT (3) = -4.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6378
PHI															
.000	1.0580	1.0380	.3810	-.0770	-.2730	-.2710	-.1860	-.0880	-.0450	-.0470	-.0500	-.0460	-.0410	-.0380	-.0110
30.000	1.0580		.4320	-.0440	-.2390	-.2330	-.1530	-.0490	-.0270	-.0520	-.0510	-.0360	-.0260	-.0180	-.0310
60.000	1.0580		.4310	-.0230	-.1980	-.1860	-.0790	.0380	.0520	-.1870	-.0750	-.0460	-.0210	-.0100	-.0080
90.000	1.0580	1.0270	.3810	-.0600	-.2020	-.1680	-.0310	.0980	.1890	-1.0340	-.0760	-.0860	-.0700	-.0640	-.0320
120.000	1.0580		.2910	-.1280	-.2680	-.2460	-.1220	-.0310	-.0430	-.2260	-.0670	-.0430	-.0380	-.0310	-.0130
135.000	1.0580							-.0650		-.0640		-.0370		-.0320	
150.000	1.0580		.2120	-.1860	-.3120	-.2850	-.1720	-.0720	.0210	.0300	-.0230	-.0370	-.0440	-.0420	.0080
165.000	1.0580			-.2290	-.3280	-.2930	-.1720	-.0660	.0590	.0950	-.0380		-.0780		.0050
180.000	1.0580	.8480	.1510	-.2490	-.3340	-.2960	-.1710	-.0600	.0770	.0990	-.0390	-.0910	-.1000	-.0880	-.0390
270.000	1.0580	.8420													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0460	-.0720	-.3140
30.000	-.0480	-.0520	-.2990
60.000	.0000	-.0530	-.3410
90.000			-.4160
120.000	.0660	-.0150	-.3500
135.000	.0660	-.0090	-.4090
150.000	.1030	-.0060	-.4310

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTD9)

MACH (1) = .598 BETAT (3) = -4.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.0620	-.3570
180.000	.0410		

MACH (1) = .598 BETAT (4) = -2.010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0720	1.0490	.3920	-.0640	-.2690	-.2680	-.1770	-.0780	-.0350	-.0390	-.0400	-.0490	-.0270	-.0250	.0050
30.000	1.0720		.4060	-.0650	-.2580	-.2430	-.1610	-.0490	-.0220	-.0420	-.0400	-.0410	-.0240	-.0170	-.0290
60.000	1.0720		.3760	-.0670	-.2240	-.2040	-.0910	.0330	.0610	-.1790	-.0620	-.0420	-.0300	-.0220	-.0110
90.000	1.0720	.9940	.3270	-.1060	-.2260	-.1870	-.0400	.0950	.1960	-1.0510	-.1120	-.0970	-.0830	-.0790	-.0520
120.000	1.0720		.2470	-.1630	-.2770	-.2450	-.1250	-.0210	-.0270	-.2240	-.0770	-.0550	-.0470	-.0390	-.0180
135.000	1.0720							-.0530		-.0620		-.0490		-.0380	
150.000	1.0720		.1980	-.2010	-.3170	-.2840	-.1590	-.0610	.0380	.0230	-.0340	-.0480	-.0510	-.0390	.0120
165.000	1.0720			-.2310	-.3210	-.2840	-.1540	-.0490	.0730	.0930	-.0380		-.0640		.0110
180.000	1.0720	.8570	.1620	-.2440	-.3220	-.2790	-.1580	-.0420	.0890	.1140	-.0390	-.0620	-.0720	-.0630	-.0050
270.000	1.0720	.9020													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0320	-.0620	-.3030
30.000	-.0320	-.0500	-.2870
60.000	-.0040	-.0490	-.2910
90.000			-.3260
120.000	.0480	-.0330	-.3230
135.000	.0630	-.0320	-.3760
150.000	.0890	-.0380	-.4000
165.000		-.1090	-.3100
180.000	.0890		

AMES 11-7?7 IA9 ORA + S3 + T9 EXTERNAL TANK (RBNTD9)

MACH (1) = .598 BETAT (5) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0770	1.0515	.3950	-.0800	-.2630	-.2580	-.1750	-.0700	-.0310	-.0340	-.0370	-.0310	-.0240	-.0170	.0040
30.000	1.0770		.3740	-.0820	-.2640	-.2510	-.1645	-.0510	-.0170	-.0400	-.0370	-.0400	-.0230	-.0190	-.0320
60.000	1.0770		.3230	-.1090	-.2490	-.2270	-.1020	.0210	.0530	-.1790	-.0880	-.0460	-.0350	-.0230	-.0160
90.000	1.0770	.9500	.2670	-.1540	-.2460	-.2050	-.0490	.0900	.2030	-1.0630	-.1130	-.1070	-.0970	-.0930	-.0830
120.000	1.0770		.2080	-.1960	-.2870	-.2520	-.1240	-.0170	-.0160	-.2240	-.0910	-.0650	-.0600	-.0470	-.0180
135.000	1.0770							-.0440		-.0660		-.0630		-.0470	
150.000	1.0770		.1810	-.2180	-.3120	-.2810	-.1530	-.0490	.0410	.0150	-.0560	-.0610	-.0640	-.0590	.0030
165.000	1.0770			-.2290	-.3170	-.2840	-.1520	-.0490	.0740	.0770	-.0510		-.0750		.0020
180.000	1.0770	.8610	.1630	-.2360	-.3140	-.2770	-.1540	-.0410	.0910	.1160	-.0520	-.0580	-.0680	-.0540	.0030
270.000	1.0770	.9530													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0270	-.0580	-.2980
30.000	-.0270	-.0540	-.2950
60.000	-.0040	-.0540	-.2730
90.000			-.2850
120.000	.0320	-.0540	-.3230
135.000	.0320	-.0590	-.3560
150.000	.0700	-.0920	-.3560
165.000		-.1870	-.2440
180.000	.0800		

MACH (1) = .998 BETAT (6) = 2.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0770	1.0430	.3890	-.0680	-.2700	-.2670	-.1830	-.0820	-.0360	-.0410	-.0430	-.0380	-.0300	-.0230	.0090
30.000	1.0770		.3350	-.1170	-.2900	-.2720	-.1730	-.0630	-.0190	-.0470	-.0400	-.0510	-.0420	-.0330	-.0490
60.000	1.0770		.2650	-.1650	-.2770	-.2410	-.1170	.0150	.0660	-.1740	-.0940	-.0550	-.0440	-.0320	-.0240
90.000	1.0770	.9060	.2090	-.2060	-.2730	-.2160	-.0530	.0940	.2140	-1.0320	-.1420	-.1180	-.1120	-.1070	-.0890
120.000	1.0770		.1660	-.2230	-.2950	-.2480	-.1170	-.0070	.0060	-.2100	-.0930	-.0720	-.0670	-.0430	-.0250
135.000	1.0770							-.0300		-.0640		-.0730		-.0500	
150.000	1.0770		.1510	-.2360	-.3160	-.2710	-.1500	-.0370	.0460	.0050	-.0230	-.0740	-.0770	-.0620	-.0130
165.000	1.0770			-.2430	-.3220	-.2760	-.1480	-.0410	.0740	.0640	-.0770		-.0860		-.0130
180.000	1.0770	.8850	.1650	-.2420	-.3230	-.2830	-.1570	-.0470	.0890	.1120	-.0750	-.0810	-.0850	-.0580	-.0040
270.000	1.0770	1.0060													

X/L*	.7449	.8528	.9290

AMES 11-7?7 IA9 ORA + S5 + T9 EXTERNAL TANK (RBWT09)

MACH (1) = .598 BETAT (6) = 2.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.9526	.9290
PHI			
.000	-.0270	-.0590	-.3020
30.000	-.0270	-.0960	-.2830
60.000	-.0120	-.0940	-.3060
90.000			-.2910
120.000	.0200	-.0680	-.3180
135.000	.0320	-.0910	-.3680
150.000	.0450	-.1380	-.3340
165.000		-.2870	-.2220
180.000	.0720		

MACH (1) = .597 BETAT (7) = 4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2356	.2874	.3412	.3[illegible]	.6[illegible]	.[illegible]	.[illegible]	.[illegible]
PHI															
.000	1.0630	1.0280	.3710	-.0780	-.2790	-.2750	-.1850	-.0850	-.0440	-.0[illegible]	-.0[illegible]	.0[illegible]	-.[illegible]	-.[illegible]	-.[illegible]
30.000	1.0630		.2850	-.1590	-.3170	-.2960	-.1920	-.0650	-.0290	-.0[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]
60.000	1.0630		.2540	-.2140	-.3010	-.2630	-.1210	.0100	.0730	-.1[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]
90.000	1.0630	.8440	.1580	-.2340	-.2890	-.2200	-.0810	.0940	.2260	-1.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]
120.000	1.0630		.1180	-.2610	-.3110	-.2450	-.1130	.0050	.0130	-.2[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]
135.000	1.0630							-.0750		-.0[illegible]		-.[illegible]		-.[illegible]	
150.000	1.0630		.1260	-.2581	-.3280	-.2770	-.1480	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]
165.000	1.0630			-.2540	-.3380	-.2830	-.1510	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]
180.000	1.0630	.8810	.1400	-.2570	-.3370	-.2910	-.1560	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]
270.000	1.0630	1.0350													

X/L*	.7449	.8528	.9290
PHI			
.000	-.0380	-.0700	-.3070
30.000	-.0380	-.0680	-.2930
60.000	-.0090	-.0830	-.2970
90.000			-.3360
120.000	.0210	-.0860	-.2980
135.000	.0810	-.0950	-.2910
150.000	.0200	-.1520	-.2450
165.000		-.2780	-.1810
180.000	.0490		

DATE 26 SEP 89 TABULATED RESPONSE DATA = .DAT

SHOCK WAVE INTERACTION WITH A 25 - 55 - 5 EXTERNAL TANK

MACH = .550 BETAT = 8.15

SECTION 1 EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1975	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0050	.9640	.3300	-.1130	-.3180	-.3070	-.2290	-.1520	-.0840	-.0890	-.0870	-.0810	-.0850	-.0880	-.0490
30.000	1.0050		.1890	-.2500	-.3770	-.3480	-.2310	-.1180	-.0550	-.0870	-.0920	-.1010	-.0820	-.0850	-.0980
60.000	1.0050		.0790	-.3090	-.3470	-.2810	-.1590	-.0640	.0090	-.1550	-.0940	-.0690	-.0550	-.0540	-.0910
90.000	1.0050	.8930	.0410	-.3270	-.3020	-.2260	-.1340	.1170	.2420	-.0560	-.2160	-.1150	-.1150	-.1020	-.1140
120.000	1.0050		.0150	-.3250	-.3220	-.2530	-.1780	.0210	.2760	-.1910	-.1170	-.0950	-.0950	-.0810	-.1020
135.000	1.0050							-.1190		-.0700		-.1140		-.0720	
150.000	1.0050		.0410	-.3130	-.3440	-.2950	-.1660	-.0430	.0230	-.0580	-.1340	-.1160	-.0550	-.0790	-.0420
165.000	1.0050			-.3120	-.3660	-.3150	-.1390	-.0440	.0260	-.0390	-.2010		-.0720		-.1330
180.000	1.0050	.9970	.1170	-.2850	-.3620	-.3170	-.2110	-.1220	.0220	.0490	-.1920	-.1330	-.0910	-.0780	-.1040
270.000	1.0050	1.0050													

X/LT	.7449	.8928	.9290

MACH = .550 BETAT = 8.15

SECTION 1 EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1975	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0050	.9640	.3300	-.1130	-.3180	-.3070	-.2290	-.1520	-.0840	-.0890	-.0870	-.0810	-.0850	-.0880	-.0490
30.000	1.0050		.1890	-.2500	-.3770	-.3480	-.2310	-.1180	-.0550	-.0870	-.0920	-.1010	-.0820	-.0850	-.0980
60.000	1.0050		.0790	-.3090	-.3470	-.2810	-.1590	-.0640	.0090	-.1550	-.0940	-.0690	-.0550	-.0540	-.0910
90.000	1.0050	.8930	.0410	-.3270	-.3020	-.2260	-.1340	.1170	.2420	-.0560	-.2160	-.1150	-.1150	-.1020	-.1140
120.000	1.0050		.0150	-.3250	-.3220	-.2530	-.1780	.0210	.2760	-.1910	-.1170	-.0950	-.0950	-.0810	-.1020
135.000	1.0050							-.1190		-.0700		-.1140		-.0720	
150.000	1.0050		.0410	-.3130	-.3440	-.2950	-.1660	-.0430	.0230	-.0580	-.1340	-.1160	-.0550	-.0790	-.0420
165.000	1.0050			-.3120	-.3660	-.3150	-.1390	-.0440	.0260	-.0390	-.2010		-.0720		-.1330
180.000	1.0050	.9970	.1170	-.2850	-.3620	-.3170	-.2110	-.1220	.0220	.0490	-.1920	-.1330	-.0910	-.0780	-.1040
270.000	1.0050	1.0050													

X/LT	.7449	.8928	.9290

AMES 11-FT TAB OPA + 55 + 19 EXTERNAL TANK (RUN779)

MACH (1) = .998 BETAT (9) = 8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0830	-.1180	-.3740
30.000	-.0710	-.0980	-.2990
60.000	-.0230	-.0740	-.2470
90.000			-.3580
120.000	.0110	-.0480	-.2670
135.000	.0010	-.0870	-.2120
150.000	.0240	-.1460	-.2120
165.000		-.2990	-.2190
180.000	-.0350		

MACH (2) = .899 BETAT (1) = -8.170

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5583	.8372
PHI															
.000	1.1390	1.1130	.4480	-.0500	-.4290	-.5070	-.2370	-.0580	-.0180	-.1240	-.1680	-.0980	-.0780	-.0750	-.0370
30.000	1.1390		.5730	.0460	-.3240	-.3720	-.1660	.0960	.0240	-.1620	-.0920	-.0550	-.0540	-.0280	-.0380
60.000	1.1390		.6360	.1290	-.2400	-.2430	-.0300	.1380	.1890	-.3060	-.0570	.0010	.0090	.0100	.0240
90.000	1.1380	1.1950	.6000	.0950	-.2660	-.2980	.0340	.2140	.3500	-.9470	-.2460	-.0150	.0140	.0000	.0380
120.000	1.1390		.4900	-.0070	-.3590	-.3190	-.0950	.0410	.0540	-.4280	-.1350	-.0080	.0000	-.0350	.0150
135.000	1.1390							-.0150		-.1660		-.0010		-.0430	
150.000	1.1390		.3550	-.1340	-.4890	-.5220	-.1190	-.0300	.0530	.0630	-.0620	-.0290	-.0670	-.1480	.0190
165.000	1.1390			-.2050	-.5540	-.5930	-.1290	-.0150	.1150	.1930	-.1350		-.1630		-.0930
180.000	1.1390	.9390	.2370	-.2610	-.5310	-.6420	-.0990	.0140	.1630	.2300	-.1360	-.1610	-.2420	-.3370	-.1320
270.000	1.1390	.8500													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0780	-.0810	-.2510
30.000	-.0160	-.0280	-.2100
60.000	.0410	.0060	-.2120
90.000			-.3970
120.000	.1700	.1610	-.1800
135.000	.1890	.1930	-.1700
150.000	.1940	.2170	-.1820
165.000		.1940	-.1650
180.000	.0320		

AMES 11-7X7 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

MACH (2) = .907 BETAT (2) = -6.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1700	1.1400	.4820	-.0360	-.4150	-.4720	-.1590	-.0200	.0140	-.0900	-.1440	-.0570	-.0430	-.0340	-.0080
30.000	1.1700		.5650	.0170	-.3290	-.3750	-.1310	.0270	.0520	-.1430	-.1160	-.0310	-.0150	-.0070	-.0270
60.000	1.1700		.5910	.0620	-.2880	-.2650	-.0260	.1390	.2510	-.2850	-.0410	.0020	.0070	.0100	.0200
90.000	1.1700	1.1370	.5520	.0250	-.3130	-.2230	.0340	.2100	.3550	-.9670	-.2280	-.0410	.0060	-.0100	.0220
120.000	1.1700		.4440	-.0580	-.3920	-.3040	-.0630	.0570	.0820	-.4060	-.1240	-.0230	-.0170	-.0570	-.0080
135.000	1.1700							.0130		-.1430		-.0070		-.0930	
150.000	1.1700		.3380	-.1570	-.4920	-.5060	-.1130	.0660	.0910	.0590	-.0860	-.0130	-.0630	-.1310	.0340
165.000	1.1700			-.0160	-.5290	-.5690	-.1050	.0120	.1430	.1940	-.1480		-.1260		.0080
180.000	1.1700	.9840	.0570	-.2340	-.5740	-.5320	-.0790	.0360	.1830	.2330	-.1480	-.1020	-.1850	-.2160	-.0540
270.000	1.1700	.9240													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0420	-.0470	-.2140
30.000	-.0310	-.0110	-.1890
60.000	.0430	.0030	-.2170
90.000			-.3680
120.000	.1480	.1210	-.2000
135.000	.1710	.1520	-.1850
150.000	.1770	.1660	-.1970
165.000		.1120	-.1860
180.000	.0740		

MACH 2) = .901 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1850	1.1560	.4870	-.0250	-.4020	-.4730	-.1190	.0040	.0390	-.0760	-.1500	-.0440	-.0210	-.0240	.0140
30.000	1.1850		.5360	.0040	-.3780	-.4270	-.1110	.0360	.0710	-.1220	-.1370	-.0280	-.0100	-.0130	-.0190
60.000	1.1850		.5350	.0180	-.3490	-.3230	-.0270	.1370	.2120	-.2650	-.0810	-.0070	-.0040	-.0030	.0140
90.000	1.1850	1.1470	.4900	-.0260	-.3860	-.2160	.0330	.2150	.3670	-.9750	-.2990	-.0420	-.0100	-.0410	.0130
120.000	1.1850		.4030	-.0960	-.4440	-.2880	-.0490	.0790	.1030	-.3750	-.1890	-.0360	-.0460	-.0700	-.0090
135.000	1.1850							.0420		-.1180		-.0160		-.0930	
150.000	1.1850		.3260	-.1690	-.5060	-.4920	-.0850	.0330	.1210	.0630	-.1170	-.0140	-.0820	-.1250	.0310
165.000	1.1850			-.2080	-.5560	-.5350	-.0760	.0400	.1650	.1920	-.1530		-.1170		.0180
180.000	1.1850	.9830	.2700	-.2380	-.5710	-.5160	-.0630	.0540	.1940	.2370	-.1530	-.0610	-.1500	-.1840	-.0080
270.000	1.1850	.9790													

X/LT	.7449	.8526	.9290
PHI			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7ft IA9 02A + S3 + T9 EXTERNAL TANK (RBNT09)

MACH (2) = .901 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0240	-.0230	-.2000
30.000	.0050	.0040	-.1870
60.000	.0330	.0030	-.2160
90.000			-.3520
120.000	.1280	.0980	-.2140
135.000	.1450	.1070	-.2140
150.000	.1680	.1060	-.2170
165.000		.0210	-.2120
180.000	.1190		

MACH (2) = .899 BETAT (4) = -2.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2936	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1980	1.1670	.4990	-.0190	-.4130	-.3000	-.0950	.0150	.0460	-.0660	-.2700	-.0290	-.0170	-.0120	.0170
30.000	1.1980		.5120	-.0120	-.4090	-.4840	-.0940	.0440	.0810	-.1000	-.2680	-.0290	-.0150	-.0090	-.0240
60.000	1.1980		.4870	-.0300	-.4110	-.4680	-.0240	.1350	.2180	-.2480	-.1140	-.0290	-.0130	-.0130	.0010
90.000	1.1980	1.1170	.4360	-.0820	-.4330	-.3570	.0350	.2120	.3740	-.9840	-.3020	-.0720	-.0290	-.0560	-.0050
120.000	1.1980		.3630	-.1370	-.5040	-.4070	-.0310	.0910	.1260	-.3480	-.2200	-.0610	-.0660	-.1010	-.0170
135.000	1.1980							.0580		-.0970		-.0390		-.1220	
150.000	1.1980		.3090	-.1860	-.5540	-.3540	-.0640	.0470	.1430	.0600	-.1410	-.0320	-.1010	-.1530	.0300
165.000	1.1980			-.2130	-.5640	-.5470	-.0610	.0500	.1770	.1830	-.1400		-.1220		.0310
180.000	1.1980	.9920	.2790	-.2360	-.5720	-.5250	-.0590	.0580	.2000	.2370	-.1450	-.0430	-.1350	-.1590	.0170
270.000	1.1980	1.0370													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0150	-.0210	-.1910
30.000	.0090	-.0060	-.1930
60.000	.0350	-.0060	-.2240
90.000			-.3390
120.000	.1100	.0580	-.2510
135.000	.1220	.0600	-.2330
150.000	.1410	.0380	-.2340
165.000		-.0820	-.2190
180.000	.1340		

AMES 11-707 IA9 O2A + S3 + T9 EXTERNAL TANK (RBMT09)

MACH (2) = .903 BETAT (5) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2000	1.1667	.5010	-.0200	-.4020	-.4820	-.1110	.0110	.0470	-.0660	-.1620	-.0280	-.0130	-.0100	.0170
30.000	1.2000		.4470	-.0760	-.4590	-.5240	-.0880	.0370	.0900	-.0750	-.2490	-.0290	-.0190	-.0150	-.0340
60.000	1.2000		.3820	-.1410	-.5050	-.5650	-.0160	.1350	.2340	-.2150	-.1190	-.0290	-.0210	-.0190	-.0050
90.000	1.2000	1.032	.3270	-.1930	-.5330	-.2700	.0490	.2170	.3980	-1.0130	-.2690	-.0740	-.0660	-.0940	-.0340
120.000	1.2000		.2720	-.2230	-.3660	-.2600	.0000	.1160	.1700	-.2920	-.2020	-.0580	-.0890	-.1100	-.0150
135.000	1.2000							.0880		-.0560		-.0540		-.1230	
150.000	1.2000		.2630	-.2330	-.5820	-.3820	-.0390	.0720	.1760	.0640	-.1980	-.0550	-.1340	-.1670	.0190
165.000	1.2000			-.2380	-.5640	-.4280	-.0460	.0620	.1920	.1680	-.2490		-.1460		.0180
180.000	1.2000	.9990	.2780	-.2370	-.5700	-.4100	-.0600	.0570	.1970	.1990	-.1750	-.0430	-.1320	-.1330	.0180
270.000	1.2000	1.1280													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0080	-.0190	-.1890
30.000	-.0060	-.0180	-.2080
60.000	.0350	-.0220	-.2440
90.000			-.3300
120.000	.0750	.0030	-.3000
135.000	.0910	-.0160	-.2720
150.000	.0980	-.0420	-.2720
165.000		-.2610	-.2020
180.000	.1500		

MACH (2) = .901 BETAT (6) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1900	1.1460	.4850	-.0270	-.4050	-.4790	-.1330	-.0060	.0330	-.0810	-.1370	-.0440	-.0280	-.0280	.0150
30.000	1.1900		.4020	-.1110	-.4780	-.5640	-.0920	.0280	.0880	-.0720	-.2930	-.0450	-.0330	-.0330	-.0380
60.000	1.1900		.3220	-.1880	-.5370	-.5650	-.0150	.1290	.2360	-.2010	-.1140	-.0240	-.0230	-.0280	-.0080
90.000	1.1900	.9780	.2740	-.2390	-.5760	-.2060	.0540	.2190	.4090	-1.0220	-.3110	-.0760	-.0780	-.1120	-.0470
120.000	1.1900		.2310	-.2560	-.5870	-.2150	.0190	.1280	.1890	-.2610	-.1870	-.0600	-.1060	-.1060	-.0170
135.000	1.1900							.0990		-.0430		-.0650		-.1170	
150.000	1.1900		.2380	-.2500	-.5900	-.2740	-.0330	.0790	.1850	.0610	-.3140	-.0730	-.1670	-.1690	.0010
165.000	1.1900			-.2480	-.5930	-.3530	-.0470	.0630	.1930	.1590	-.3060		-.1800		-.0190
180.000	1.1900	.9930	.2720	-.2360	-.5620	-.4600	-.0700	.0470	.1870	.2350	-.2790	-.0630	-.1580	-.1700	-.0140
270.000	1.1900	1.1390													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK (RBHT09)

MACH (2) = .901 BETAT (6) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0200	-.0310	-.2000
30.000	-.0200	-.0270	-.2230
60.000	.0270	-.0250	-.2520
90.000			-.3300
120.000	.0650	-.0060	-.2850
135.000	.0750	-.0320	-.2830
150.000	.0770	-.0940	-.2380
165.000		-.2110	-.1720
180.000	.1050		

MACH (2) = .900 BETAT (7) = 6.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1680	1.1340	.4760	-.0350	-.4080	-.4870	-.2000	-.0180	.0060	-.0980	-.1710	-.0640	-.0570	-.0420	-.0240
30.000	1.1680		.3640	-.1480	-.5160	-.5790	-.1170	.0160	.0760	-.0680	-.3450	-.0590	-.0580	-.0480	-.0730
60.000	1.1680		.2670	-.2390	-.5920	-.6420	-.0280	.1280	.2350	-.1820	-.1890	-.0270	-.0420	-.0350	-.0210
90.000	1.1680	.9150	.2170	-.2880	-.6180	-.2270	.0480	.1940	.4210	-1.0010	-.3210	-.0890	-.1100	-.1290	-.0840
120.000	1.1680		.1810	-.2990	-.6250	-.2060	.0160	.1100	.2040	-.2430	-.2130	-.0690	-.1190	-.1310	-.0290
135.000	1.1680							.0910		-.0360		-.0710		-.1330	
150.000	1.1680		.2010	-.2800	-.6080	-.3240	-.0260	.0720	.1910	.0820	-.4790	-.0940	-.1980	-.2030	-.0140
165.000	1.1680			-.2730	-.5990	-.5250	-.0520	.0510	.1910	.1400	-.4110		-.2230		-.0630
180.000	1.1680	.9650	.2510	-.2540	-.5840	-.6400	-.0820	.0270	.1770	.2290	-.4300	-.1170	-.1980	-.2470	-.0630
270.000	1.1680	1.1810													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0350	-.0800	-.2200
30.000	-.0380	-.0520	-.2430
60.000	.0270	-.0420	-.2560
90.000			-.3290
120.000	.0560	-.0310	-.2650
135.000	.0390	-.0490	-.2530
150.000	.0650	-.1200	-.1910
165.000		-.2690	-.1910
180.000	.0590		

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

MACH (2) = .900 BETAT (8) = 8.240

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1410	1.0990	.4920	-.0480	-.4100	-.4960	-.2420	-.0530	-.0210	-.1240	-.1490	-.1020	-.0730	-.0740	-.0360
30.000	1.1410		.3160	-.1900	-.5420	-.6150	-.1130	.0040	.0630	-.0740	-.3230	-.0870	-.0710	-.0730	-.0880
60.000	1.1410		.2060	-.2870	-.6200	-.4600	-.0390	.1030	.2370	-.1820	-.2130	-.0480	-.0430	-.0480	-.0180
90.000	1.1410	.8470	.1590	-.3320	-.6340	-.1460	.0165	.1960	.4340	-.9690	-.3040	-.0840	-.1300	-.1850	-.1140
120.000	1.1410		.1330	-.3390	-.6430	-.1490	.0040	.1300	.2170	-.2120	-.3230	-.0570	-.1410	-.1160	-.0390
135.000	1.1410							.1090		-.0250		-.0640		-.1330	
150.000	1.1410		.1600	-.3060	-.6300	-.2620	-.0340	.0790	.1920	.0480	-.6290	-.1000	-.2230	-.1840	-.0240
165.000	1.1410			-.2970	-.6210	-.4960	-.0650	.0490	.1810	.1270	-.4650		-.2790		-.1070
180.000	1.1410	.9420	.2290	-.2680	-.5920	-.6290	-.1020	.0120	.1600	.2120	-.4630	-.1610	-.2520	-.2990	-.1310
270.000	1.1410	1.1990													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0710	-.0760	-.2580
30.000	-.0460	-.0830	-.2710
60.000	.0170	-.0430	-.2730
90.000			-.3420
120.000	.0380	-.0410	-.2730
135.000	.0350	-.0450	-.2270
150.000	.0820	-.1740	-.2280
165.000		-.2990	-.2140
180.000	.0300		

MACH (3) = 1.103 BETAT (1) = -8.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2700	1.2460	.6280	.1630	-.1930	-.2740	-.3750	-.3130	.1270	.0960	-.0740	-.1750	-.1270	-.0980	-.0390
30.000	1.2700		.7370	.2410	-.1220	-.2000	-.3100	-.2360	.1650	.0510	-.2080	-.0200	-.0250	-.0250	-.0740
60.000	1.2700		.7900	.3040	-.0770	-.1590	-.2680	.0600	.3570	-.0070	-.4420	.0260	.0590	.0450	.0020
90.000	1.2700	1.3160	.7590	.2730	-.0980	-.1890	-.2930	.2280	.4850	-.4980	-.3710	-.0100	.0790	.0720	.0020
120.000	1.2700		.6530	.1870	-.1810	-.2610	-.3530	-.0150	.1740	-.1760	-.2760	.0230	.0930	.0930	-.0740
135.000	1.2700							-.2630		.0060		.0970		.0480	
150.000	1.2700		.5310	.0800	-.2700	-.3490	-.4300	-.3880	.1510	.2150	-.0640	.0950	.0840	-.0170	-.1050
165.000	1.2700			.0200	-.3120	-.3830	-.4610	-.3270	.1920	.3610	-.1330		.0470		-.1970
180.000	1.2700	1.0850	.4290	-.0220	-.3360	-.4110	-.4910	-.0680	.1820	.3640	-.1350	-.2140	-.0100	-.1680	-.2830
270.000	1.2700	1.0070													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-707 IA9 CBA + S3 + T9 EXTERNAL TANK (RBNT09)

MACH (3) = 1.103 BETAT (1) = -8.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0660	-.0140	-.0610
30.000	.0100	.0660	-.0230
60.000	.0470	.0980	-.0230
90.000			-.2590
120.000	.1910	.3150	.1070
135.000	.2130	.3800	.1150
150.000	.2240	.3870	.0970
165.000		.3890	.1170
180.000	.0580		

MACH (3) = 1.100 BETAT (2) = -6.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2920	1.2690	.6480	.1770	-.1820	-.2640	-.3660	-.3030	.1760	.1460	-.0380	-.2050	-.1090	-.0350	.0090
30.000	1.2920		.7250	.2300	-.1340	-.2170	-.3230	-.2510	.2010	.1020	-.1420	-.0380	-.0440	-.0100	-.0490
90.000	1.2920		.7490	.2610	-.1110	-.1980	-.3010	-.1290	.3700	.0210	-.4210	.0160	.0290	.0350	.0100
90.000	1.2920	1.2980	.7060	.2250	-.1410	-.2290	-.3300	.1320	.4970	-.5000	-.3770	-.0220	.0750	.0570	-.0180
120.000	1.2920		.6130	.1470	-.2110	-.2880	-.3790	-.0980	.2250	-.1460	-.2530	.0090	.0880	.0610	-.0980
135.000	1.2920							-.3290		.0430		.0850		.0310	
150.000	1.2920		.5150	.0650	-.2790	-.3560	-.4390	-.3080	.1780	.2290	-.1630	.1110	.0980	-.0230	-.1170
165.000	1.2920			.0200	-.3150	-.3810	-.4600	-.0550	.1320	.3520	-.1860		.0550		-.1890
180.000	1.2920	1.1040	.4430	-.0200	-.3360	-.4030	-.2640	-.0510	.1240	.3500	-.1840	-.0320	.0160	-.1200	-.2430
270.000	1.2920	1.0670													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0510	-.0150	-.0090
30.000	.0100	.0480	.0090
60.000	.0480	.0790	-.0450
90.000			-.2660
120.000	.1490	.2680	.0780
135.000	.1710	.3070	.0840
150.000	.1980	.3280	.0700
165.000		.2890	-.0650
180.000	.1070		

AMES 11-7X7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT09)

MACH (3) = 1.103 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3110	1.2340	.6590	.1800	-.1780	-.2610	-.3630	-.3010	.2130	.1760	-.0220	-.2080	-.0920	-.0320	.0580
30.000	1.3110		.7020	.2070	-.1550	-.2330	-.3380	-.2670	.2140	.1400	-.1070	-.0710	-.0620	.0030	.0090
60.000	1.3110		.7000	.2160	-.1510	-.2340	-.3370	-.2400	.3750	.0380	-.4030	.0010	.0010	.0330	.0330
90.000	1.3110	1.2730	.6560	.1760	-.1810	-.2670	-.3640	.0730	.5080	-.5050	-.4030	-.0230	.0630	.0300	-.0150
120.000	1.3110		.5790	.1130	-.2380	-.3140	-.4040	-.0820	.2470	-.1230	-.2370	.0260	.0750	.0430	-.1150
135.000	1.3110							-.1380		.0700		.1350		.0180	
150.000	1.3110		.5060	.0510	-.2920	-.3630	-.4430	-.0410	.1320	.2340	-.1960	.1480	.0910	-.0250	-.1250
165.000	1.3110			.0150	-.3150	-.3820	-.2170	-.0360	.0870	.3330	-.2160		.0630		-.1380
180.000	1.3110	1.1200	.4530	-.0140	-.3290	-.3940	-.0500	-.0150	.0600	.3170	-.2150	-.0110	.0440	-.0800	-.1820
270.000	1.3110	1.1240													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0340	-.0250	-.0080
30.000	.0200	.0220	-.0070
60.000	.0560	.0520	-.0610
90.000			-.2530
120.000	.1090	.2110	.0510
135.000	.1410	.2410	.0540
150.000	.1730	.2410	.0490
165.000		.0950	.0400
180.000	.1260		

MACH (3) = 1.103 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3210	1.2920	.6650	.1850	-.1750	-.2590	-.3610	-.2980	.2180	.1930	.0120	-.2100	-.0740	.0140	.0580
30.000	1.3210		.6770	.1880	-.1730	-.2520	-.3600	-.2900	.2190	.1620	-.1120	-.1140	-.0980	.0300	.0080
60.000	1.3210		.6540	.1720	-.1850	-.2650	-.3640	-.2610	.3640	.0590	-.3890	-.0180	.0060	.0410	.0230
90.000	1.3210	1.2430	.6050	.1270	-.2220	-.3040	-.3980	.0480	.5170	-.5180	-.3940	-.0120	.0680	.0410	-.0470
120.000	1.3210		.5400	.0790	-.2680	-.3420	-.4260	-.0120	.2660	-.0980	-.2190	.0570	.0770	.0180	-.1580
135.000	1.3210							-.0320		.0940		.1350		.0000	
150.000	1.3210		.4910	.0360	-.3050	-.3760	-.4270	-.0410	.0960	.2380	-.1980	.1310	.0810	-.0310	-.1410
165.000	1.3210			.0120	-.3160	-.3850	-.1010	-.0240	.0770	.2940	-.1030		.0760		-.1410
180.000	1.3210	1.1310	.4590	-.0090	-.3250	-.3940	-.0400	-.0110	.0880	.2680	-.0870	.0740	.0720	-.0440	-.1420
270.000	1.3210	1.1690													

X/LT	.7449	.8528	.9290

AMES 11-7D7 1A9 OEA + S3 + T9 EXTERNAL TANK (RBNTD9)

MACH (3) = 1.103 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0270	-.0400	-.0160
30.000	.0130	-.0130	-.0170
60.000	.0840	.0090	-.0760
90.000			-.2380
120.000	.0840	.1560	-.0150
135.000	.1100	.1850	.0030
150.000	.1420	.1470	-.0180
165.000		-.0130	-.0170
180.000	.1320		

MACH (3) = 1.103 BETAT (5) = 2.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3230	1.2890	.6620	.1830	-.1790	-.2610	-.3610	-.2960	.2130	.1910	-.0120	-.2090	-.0820	.0120	.0090
30.000	1.3230		.6160	.1370	-.2220	-.2960	-.3930	-.3290	.1840	.1740	-.0800	-.1860	-.0880	.0130	.0050
60.000	1.3230		.5570	.0820	-.2600	-.3320	-.4250	-.0300	.2620	.1120	-.3290	-.0580	-.0680	.0280	.0170
90.000	1.3230	1.1690	.5050	.0360	-.2940	-.3710	-.4560	.0010	.5550	-.5250	-.3640	.0010	.0290	-.0020	-.0950
120.000	1.3230		.4640	.0060	-.3180	-.3910	-.4670	-.0240	.2410	-.0320	-.2330	.0940	.0640	-.0400	-.2130
135.000	1.3230							-.0450		.1670		.0920		-.0800	
150.000	1.3230		.4530	-.0010	-.3290	-.3970	-.1010	-.0340	.0790	.2210	-.1230	.0460	.0930	-.0820	-.1940
165.000	1.3230			-.0050	-.3270	-.3970	-.0510	-.0150	.0950	.2470	-.0810		.0540		-.1770
180.000	1.3230	1.1390	.4650	-.0070	-.3250	-.3930	-.0420	-.0160	.0820	.2710	-.0550	.0640	.0840	-.0500	-.1680
270.000	1.3230	1.2550													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0210	-.0520	-.0070
30.000	.0010	-.0380	-.0430
60.000	.0890	-.0080	-.0680
90.000			-.1490
120.000	.0680	.0720	-.0890
135.000	.0880	.0430	-.0730
150.000	.1040	-.0490	-.1030
165.000		-.2330	-.1290
180.000	.1380		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTD9)

MACH (3) = 1.103 BETAT (6) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3130	1.2740	.6520	.1770	-.1800	-.2650	-.3650	-.3020	.1950	.1670	-.0290	-.2120	-.1070	-.0130	.0510
30.000	1.3130		.5770	.1060	-.2440	-.3180	-.4150	-.3450	.1700	.1690	-.0900	-.2080	-.1070	-.0090	-.0110
60.000	1.3130		.5040	.0410	-.2890	-.3590	-.4490	-.0120	.1850	.1450	-.2950	-.1010	-.0950	.0040	.0050
90.000	1.3130	1.1290	.4590	-.0080	-.3220	-.3950	-.4740	-.0200	.5810	-.5100	-.3570	-.0280	.0050	-.0210	-.1130
120.000	1.3130		.4230	-.0290	-.3400	-.4080	-.1900	-.0320	.1880	.0080	-.2460	.0760	.0490	-.0630	-.2390
135.000	1.3130							-.0400		.1830		.0480		-.0820	
150.000	1.3130		.4270	-.0230	-.3430	-.4090	-.0540	-.0290	.0880	.2230	-.1490	.0190	.0240	-.1100	-.2390
165.000	1.3130			-.0210	-.3360	-.4050	-.0340	-.0140	.0930	.2230	-.1990		.0190		-.2450
180.000	1.3130	1.1340	.4600	-.0080	-.3310	-.3960	-.0460	-.0250	.0760	.3310	-.2090	.0100	.0370	-.0900	-.2040
270.000	1.3130	1.2840													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0490	-.0340	.0140
30.000	-.0160	-.0290	-.0310
60.000	.0860	.0120	-.0650
90.000			-.1340
120.000	.0700	.0580	-.1000
135.000	.0950	.0400	-.1060
150.000	.1100	-.0070	-.1370
165.000		-.1250	-.1640
180.000	.1310		

MACH (3) = 1.101 BETAT (7) = 6.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.2950	1.2610	.6450	.1750	-.1880	-.2700	-.3670	-.3010	.1820	.1310	-.0550	-.2000	-.1200	-.0810	.0140
30.000	1.2950		.5450	.0850	-.2700	-.3400	-.4330	-.3680	.1480	.1620	-.0540	-.2230	-.1220	-.0420	-.0370
60.000	1.2950		.4560	.0010	-.3220	-.3900	-.4730	-.0280	.0960	.1790	-.2480	-.1220	-.1120	-.0210	-.0200
90.000	1.2950	1.0650	.4120	-.0470	-.3500	-.4200	-.2110	-.0430	.5930	-.4930	-.2640	-.1020	-.0130	-.0430	-.1410
120.000	1.2950		.3810	-.0630	-.3620	-.4210	-.0960	-.0410	.1160	.0460	-.1880	.0140	.0360	-.0870	-.2690
135.000	1.2950							-.0430		.1680		.0150		-.1080	
150.000	1.2950		.3960	-.0450	-.3580	-.4240	-.0550	-.0370	.0730	.2530	-.2200	.0300	.0040	-.1460	-.2890
165.000	1.2950			-.0350	-.3470	-.4170	-.0360	-.0260	.0610	.2400	-.3270		-.0180		-.3160
180.000	1.2950	1.1100	.4430	-.0210	-.3370	-.4020	-.0890	-.0380	.0860	.3510	-.3310	-.0180	.0050	-.1410	-.2970
270.000	1.2950	1.3000													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (KBNT09)

MACH (3) = 1.101 BETAT (7) = 6.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0370	-.0140	-.0230
30.000	-.0140	-.0010	-.0480
60.000	.0590	.0230	-.0720
90.000			-.1400
120.000	.0830	.0620	-.1190
135.000	.1070	.0290	-.1580
150.000	.1120	-.1140	-.1740
165.000		-.2460	-.1950
180.000	.1120		

MACH (3) = 1.104 BETAT (8) = 6.280

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2720	1.2330	.6280	.1610	-.1980	-.2790	-.3780	-.3160	.1270	.0810	-.0690	-.1580	-.1340	-.1090	-.0440
30.000	1.2720		.5020	.0480	-.3030	-.3650	-.4580	-.2820	.1200	.1450	-.0890	-.2280	-.1520	-.0780	-.0640
60.000	1.2720		.4060	-.0490	-.3550	-.4220	-.3130	-.0590	.0450	.1660	-.1830	-.1620	-.1380	-.0910	-.0430
90.000	1.2720	1.0030	.3640	-.0860	-.3810	-.4440	-.0990	-.0590	.4970	-.4720	-.1690	-.2170	-.0220	-.0660	-.1550
120.000	1.2720		.3400	-.0950	-.3840	-.4440	-.0800	-.0570	.0590	.0920	-.0870	-.0830	.0210	-.1050	-.3000
135.000	1.2720							-.0500		.1310		-.0280		-.1360	
150.000	1.2720		.3660	-.0750	-.3740	-.4420	-.0580	-.0480	.0690	.2250	-.2650	-.0430	-.0140	-.1870	-.3070
165.000	1.2720			-.0560	-.3650	-.4340	-.0730	-.0540	.0360	.2540	-.4060		-.0480		-.3980
180.000	1.2720	1.0910	.4260	-.0300	-.3480	-.4130	-.2930	-.0700	.0730	.3730	-.4020	-.2310	-.0040	-.1930	-.2530
270.000	1.2720	1.3200													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0600	-.0090	-.0690
30.000	-.0180	-.0140	-.0690
60.000	.0560	.0240	-.0840
90.000			-.1500
120.000	.0810	.0470	-.1500
135.000	.0930	.0050	-.1780
150.000	.0870	-.1880	-.1980
165.000		-.2380	-.1980
180.000	.0570		

AMES 11-707 IA9 CBA + S3 + T9 EXTERNAL TANK (RBNT09)

MACH (4) = 1.248 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3510	1.3[illegible]	.6870	.2310	-.1050	-.1800	-.2780	-.2350	-.1500	.1050	.0290	-.1230	-.1130	-.1020	-.0870
30.000	1.3510		.7930	.3290	-.0260	-.1060	-.2060	-.1690	.1680	.0780	-.1640	-.1060	.0030	-.0200	-.0370
60.000	1.3510		.8460	.3700	.0140	-.0760	-.1780	-.1310	.3910	.1150	-.3590	-.0620	.0540	.0530	.0130
90.000	1.3510	1.3[illegible]	.8160	.3460	-.0100	-.1000	-.1970	-.1530	.5450	-.3060	-.3750	-.0660	.0560	.0910	.0170
120.000	1.3510		.7140	.2570	-.0[illegible]30	-.1680	-.2530	-.2150	.1730	-.1220	-.1120	-.0780	.0320	.1050	.0030
135.000	1.3510							-.2540		-.0300		-.0620		.0850	
150.000	1.3510		.5000	.1510	-.1760	-.2500	-.3230	-.2870	.1150	.2570	.0160	-.0810	.1100	.0500	.0030
165.000	1.3510			.0950	-.2150	-.2860	-.3560	-.3220	.0710	.3870	.0130		-.0160		-.0480
180.000	1.3510	1.1810	.4640	.0530	-.2430	-.3120	-.3850	-.3420	.0510	.4180	.0140	-.2050	-.1920	-.1460	-.1440
270.000	1.3510	1.0820													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0670	.0100	-.0160
30.000	-.0390	.0290	.0330
60.000	.0150	.0420	.0320
90.000			-.2950
120.000	.0970	.3500	.1730
135.000	.0970	.4000	.2090
150.000	.0480	.4240	.2080
165.000		.4370	.2140
180.000	-.2430		

MACH (4) = 1.248 BETAT (2) = -8.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3750	1.3470	.7080	.2430	-.0930	-.1670	-.2700	-.2290	-.1530	.1980	.0760	-.1080	-.1270	-.0800	-.0500
30.000	1.3750		.7820	.3140	-.0400	-.1210	-.2260	-.1810	[illegible]	.1040	-.0190	-.1060	-.0040	-.0310	-.0470
60.000	1.3750		.8030	.3300	-.0290	-.1110	-.2130	-.1650	.3630	.1320	-.3500	-.0420	.0410	.0320	-.0050
90.000	1.3750	1.3950	.7650	.2950	-.0500	-.1390	-.2290	-.1870	.5360	-.3080	-.3910	-.0720	.0990	.0930	-.0050
120.000	1.3750		.6720	.2200	-.1160	-.1970	-.2760	-.2380	.1610	-.0740	-.1200	-.0820	.0330	.0800	-.0050
135.000	1.3750							-.2650		.0510		-.1100		.0890	
150.000	1.3750		.5750	.1380	-.1830	-.2600	-.3360	-.2950	.1630	.2780	-.0100	-.1080	.1310	.0290	-.0200
165.000	1.3750			.0930	-.2130	-.2870	-.3550	-.3160	.0850	.4010	-.0090		.0140		-.0890
180.000	1.3750	1.1800	.4980	.0600	-.2340	-.3050	-.3720	-.3200	.0910	.4030	-.0080	-.1610	-.1630	.0840	-.1350
270.000	1.3750	1.1420													

X/LT	.7449	.8326	.9290
PHI			

MI

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT09)

MACH (4) = 1.248 BETAT (2) = -6.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0410	-.0030	-.0120
30.000	-.0150	.0210	.0200
60.000	.0160	.0330	.0000
90.000			-.2900
120.000	.0210	.3050	.1440
135.000	.0210	.3420	.1870
150.000	-.0160	.3630	.1810
165.000		.3240	.1820
180.000	-.1900		

MACH (4) = 1.249 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0009	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3950	1.3830	.7180	.2550	-.0640	-.1800	-.2560	-.2220	-.1530	.2490	.0950	-.0970	-.1510	-.0850	-.0200
30.000	1.3950		.7570	.2950	-.0560	-.1350	-.2360	-.1900	.1010	.1410	.0120	-.1260	-.0230	-.0380	-.0470
60.000	1.3950		.7800	.2680	-.0540	-.1380	-.2350	-.1910	.3130	.1430	-.3310	-.0350	.0240	.0090	-.0170
90.000	1.3950	1.3380	.7170	.2910	-.0850	-.1710	-.2610	-.2210	.5270	-.3100	-.3890	-.0570	.0920	.0730	-.0130
120.000	1.3950		.6470	.1690	-.1430	-.2180	-.2950	-.2590	.1500	-.0370	-.1470	-.0820	.0470	.0230	-.0380
135.000	1.3950							-.2790		.1310		-.1750		.0720	
150.000	1.3950		.5690	.1230	-.1890	-.2640	-.3350	-.2980	.1390	.2920	-.0250	-.0910	.0690	.0780	-.0480
165.000	1.3950			.0940	-.2090	-.2790	-.3500	-.3090	.0900	.3660	-.0390		-.0280		-.0740
180.000	1.3950	1.2020	.5160	.0580	-.2210	-.2910	-.3610	-.2500	.0540	.3220	-.0380	-.1290	-.1730	.1190	-.1170
270.000	1.3930	1.2000													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0180	.0070	-.0060
30.000	.0120	.0300	.0190
60.000	.0390	.0430	-.0030
90.000			-.2180
120.000	.0070	.2540	.1210
135.000	-.0140	.2800	.1160
150.000	-.0440	.2820	.1170
165.000		.2540	.1320
180.000	-.1430		

TABULATED PRESSURE DATA - [illegible]

AMES 11-FT TWT 149 OPR - 53 - TO EXTERNAL TANK (REMTDH)

MACH = [illegible] BETA = [illegible]

SECTION = EXTERNAL TANK DEPENDENT VARIABLE IS

X/L														
[illegible]														
[illegible]														
[illegible]														

MACH (4) = 1.249 BETAT (6) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1959	.2121	.2538	.2874	.3412	.3930	.4489	.5027	.5583	.6372
PHI															
.000	1.3990	1.3525	.7080	.2500	-.0690	-.1660	-.2370	-.2250	-.1490	.2580	.0840	-.1040	-.1380	-.0690	-.0110
30.000	1.3990		.6370	.1840	-.1400	-.2100	-.3030	-.2620	-.0810	.2200	.0850	-.1360	-.1240	-.0710	-.0480
60.000	1.3990		.5650	.1160	-.1840	-.2550	-.3360	-.3010	-.1510	.2420	-.2130	-.0290	-.0870	-.0660	-.0220
90.000	1.3990	1.2000	.5150	.0710	-.2150	-.2890	-.3630	-.3210	-.5630	-.3110	-.3980	-.0310	-.0940	.0260	-.0480
120.000	1.3990		.4800	.0520	-.2340	-.3010	-.3690	-.3250	.0750	.0960	-.2480	-.0320	-.0170	.0690	-.1370
135.000	1.3990							-.2510		.2130		-.1160		.0470	
150.000	1.3990		.4860	.0580	-.2370	-.3160	-.3670	-.1390	.0620	.1890	-.0190	-.2130	-.0120	.0380	-.1370
165.000	1.3990			.0610	-.2310	-.3130	-.3660	-.1170	.0720	.2230	-.0480		-.1480		-.1970
180.000	1.3990	1.2100	.5200	.0700	-.2240	-.2930	-.3630	-.2630	.0490	.3180	-.0870	-.1250	-.1760	.0410	-.1120
270.000	1.3990	1.3810													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0120	.0000	-.0030
30.000	.0140	-.0040	-.0250
60.000	.0960	-.0040	-.0260
90.000			-.0900
120.000	-.0220	.0480	-.0520
135.000	.0020	.0190	-.0430
150.000	-.0020	-.0480	-.0760
165.000		-.2330	-.1330
180.000	-.1440		

AMES 11-707 IA9 OA • S3 • T9 EXTERNAL TANK (RBMT09)

MACH (4) = 1.249 BETAT (7) = 6.170

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3810	1.3360	.7050	.2450	-.0010	-.1700	-.2630	-.2340	-.1510	.1780	.0820	-.1130	-.1190	-.0680	-.0390
30.000	1.3810		.6020	.1620	-.1640	-.2360	-.3200	-.2800	-.1050	.2350	.0630	-.1700	-.1350	-.0930	-.0590
60.000	1.3810		.5130	.0750	-.2210	-.2900	-.3660	-.3330	.0560	.2940	-.1710	-.0260	-.0920	-.0980	-.0390
90.000	1.3810	1.1450	.4680	.0300	-.2550	-.3220	-.3990	-.3300	.5620	-.3130	-.3000	-.0390	-.1910	-.0050	-.0880
120.000	1.3810		.4380	.0100	-.2580	-.3260	-.3980	-.2580	.0430	.1250	-.2390	-.0590	-.0620	.0410	-.1550
135.000	1.3810							-.1550		.2030		-.1380		.0390	
150.000	1.3810		.4540	.0340	-.2540	-.3210	-.3840	-.1150	.0700	.2490	-.0460	-.2420	-.0740	.0110	-.1580
165.000	1.3810			.0410	-.2460	-.3130	-.3800	-.2890	.0830	.2440	-.1430		-.1940		-.1980
180.000	1.3810	1.1030	.5000	.0620	-.2330	-.3010	-.3700	-.3250	.1030	.3650	-.1400	-.1720	-.1630	.0840	-.1390
270.000	1.3810	1.3840													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0740	-.0100	-.0130
30.000	-.0090	-.0130	-.0120
60.000	.0760	.0060	-.0130
90.000			-.0890
120.000	.0230	.0960	-.0680
135.000	.0480	.0970	-.0500
150.000	.0500	.0450	-.1250
165.000		-.2320	-.1740
180.000	-.2060		

MACH (4) = 1.246 BETAT (8) = 8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3570	1.3120	.6840	.2320	-.1040	-.1810	-.2810	-.2430	-.1140	.0680	.0230	-.1290	-.1080	-.1070	-.0720
30.000	1.3570		.5620	.1190	-.1990	-.2660	-.3480	-.3190	-.1430	.2320	.0220	-.1820	-.1350	-.1150	-.0750
60.000	1.3570		.4650	.0280	-.2580	-.3230	-.3990	-.3620	.0810	.2820	-.1380	-.0660	-.1370	-.1170	-.0450
90.000	1.3570	1.0810	.4190	-.0120	-.2840	-.3530	-.4160	-.0840	.5080	-.3070	-.2510	-.0600	-.2570	-.0160	-.0780
120.000	1.3570		.3950	-.0210	-.2870	-.3520	-.4110	-.0790	.0300	.1480	-.1640	-.1140	-.1020	.0150	-.1800
135.000	1.3570							-.0630		.1400		-.1440		-.0050	
150.000	1.3570		.4210	.0010	-.2780	-.3470	-.4100	-.1050	.0940	.2620	-.1110	-.2660	-.0820	-.0330	-.1810
165.000	1.3570			.0190	-.2670	-.3370	-.4010	-.3340	.0630	.2810	-.1910		-.2100		-.2460
180.000	1.3570	1.1700	.4840	.0460	-.2480	-.3180	-.3910	-.3470	.0350	.3650	-.1920	-.2190	-.1530	-.0980	-.1510
270.000	1.3570	1.3980													

X/LT	.7449	.8526	.9290
PHI			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OPA + S3 + T9 EXTERNAL TANK (RBNT"19)

MACH (4) = 1.246 BETAT (8) = 8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.7449	.8526	.9299
PHI			
.000	-.0580	-.0010	-.0240
30.000	.0230	-.0130	-.0430
60.000	.0900	-.0120	-.0430
90.000			-.1130
120.000	.0580	.0730	-.1140
135.000	.0580	.0440	-.1360
150.000	.0280	-.1200	-.1810
165.000		-.2250	-.1770
180.000	-.2800		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT1D) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .597 BETAT (1) = -8.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	.9810	1.0080	.3890	-.0590	-.0050	.2180	-.1970	-.1050	-.0630	-.0670	-.0680	-.0700	-.0820	-.0800	-.0320
30.000	.9810		.5200	.6530	.8290	1.1300	-.1220	-.0270	-.0090	-.0510	-.0650	-.0270	-.0140	-.0060	-.0320
60.000	.9810		.3570	1.3300	1.8430	-.1080	-.0260	.0790	.0970	-.1340	-.0430	.0050	.0170	.0210	.0300
90.000	.9810	1.0510	.4780	1.3970	3.4910	-.1230	-.0110	.1010	.1560	-.0940	-.1580	-.1140	-.0790	-.0620	-.0070
120.000	.9810		.3180	.6370	2.4680	-.2300	-.1610	-.0880	-.1250	-.2500	-.0510	-.0120	-.0120	-.0070	.0160
135.000	.9810							-.1290		-.0810		-.0090		-.0070	
150.000	.9810		.1610	.0530	1.4630	-.3320	-.2280	-.1340	-.0410	.0190	-.0080	-.0210	-.0370	-.0360	.0170
165.000	.9810			.0160	.0130	-.3410	-.2230	-.1230	.0130	.0840	-.0110		-.1110		-.0510
180.000	.9810	.7280	.0600	-.1160	.4230	-.3350	-.2110	-.0980	.0380	.0610	-.1020	-.1660	-.1630	-.1790	-.1340
270.000	.9810	.6770													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0720	-.0990	-.3410
30.000	-.0160	-.0520	-.3730
60.000	.0290	-.0320	-.3930
90.000			-.5180
120.000	.1120	.0360	-.3970
135.000	.1120	.0730	-.4250
150.000	.1410	.0810	-.4520
165.000		.0670	-.4350
180.000	-.0330		

MACH (1) = .598 BETAT (2) = -6.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0120	1.0390	.4250	-.0300	-.2480	-.2500	-.1780	-.0800	-.0410	-.0410	-.0510	-.0450	-.0410	-.0380	-.0100
30.000	1.0120		.5060	.0290	-.1930	-.1880	-.1220	-.0230	-.0020	-.0370	-.0480	-.0200	-.0090	.0010	-.0180
60.000	1.0120		.5080	.0520	-.1470	-.1420	-.0440	.0660	.1000	-.1330	-.0480	-.0090	.0020	.0120	.0180
90.000	1.0120	1.0290	.4200	-.0260	-.1800	-.1590	-.0360	.0840	.1500	-1.0200	-.2410	-.1450	-.1000	-.0920	-.0340
120.000	1.0120		.2770	-.1390	-.2810	-.2610	-.1600	-.0890	-.1120	-.2660	-.0620	-.0330	-.0320	-.0240	.0070
135.000	1.0120							-.1160		-.0840		-.0230		-.0220	
150.000	1.0120		.1540	-.2380	-.3490	-.3270	-.2150	-.1170	-.0230	.0180	-.0160	-.0280	-.0400	-.0370	.0180

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT1D)

MACH (1) = .598 BETAT (2) = -8.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.0120			-.2790	-.3580	-.3290	-.2050	-.0990	.0280	.0870	-.0340		-.0850		-.0150
180.000	1.0120	.7480	.0770	-.3100	-.3590	-.3150	-.1910	-.0760	.0580	.0870	-.0360	-.1170	-.1300	-.1230	-.0710
270.000	1.0120	.7560													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0500	-.0750	-.3130
30.000	-.0100	-.0450	-.3080
60.000	.0260	-.0400	-.3720
90.000			-.5040
120.000	.0710	.0310	-.3940
135.000	.1120	.0400	-.4270
150.000	.1280	.0590	-.4500
165.000		.0280	-.3880
180.000	.0080		

MACH (1) = .597 BETAT (3) = -4.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0370	1.0630	.4360	-.0230	-.2330	-.2420	-.1600	-.0660	-.0230	-.0290	-.0320	-.0310	-.0200	-.0190	.0080
30.000	1.0370		.4830	.0070	-.2030	-.2020	-.1220	-.0240	.0070	-.0260	-.0270	-.0180	-.0050	-.0020	-.0110
60.000	1.0370		.4530	-.0010	-.1830	-.1660	-.0600	.0540	.0990	-.1380	-.0280	-.0190	.0030	.0020	.0110
90.000	1.0370	1.0070	.3670	-.0720	-.2140	-.1780	-.0440	.0810	.1550	-1.0660	-.2380	-.1660	-.1340	-.1200	-.0580
120.000	1.0370		.2440	-.1670	-.2940	-.2620	-.1560	-.0720	-.0950	-.2600	-.0790	-.0420	-.0390	-.0330	.0000
135.000	1.0370							-.0950		-.0770		-.0310		-.0290	
150.000	1.0370		.1490	-.2380	-.3460	-.3080	-.1920	-.0920	.0010	.0230	-.0220	-.0260	-.0390	-.0290	.0250
165.000	1.0370			-.2750	-.3530	-.3120	-.1780	-.0750	.0530	.0950	-.0200		-.0580		.0090
180.000	1.0370	.7760	.0970	-.2940	-.3450	-.3000	-.1770	-.0590	.0750	.1090	-.0210	-.0730	-.0840	-.0740	-.0210
270.000	1.0370	.8260													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0290	-.0510	-.3140
30.000	-.0340	-.0300	-.2680
60.000	.0200	-.0340	-.2960
90.000			-.4050
120.000	.0790	.0190	-.3570
135.000	.0790	.0210	-.3770
150.000	.1210	.0260	-.4220

ANES 11-707 IA9 OBA + S3 + T9 EXTERNAL TANK (RBNT1D)

MACH (1) = .597 BETAT (3) = -4.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.0290	-.3580
180.000	.0580		

MACH (1) = .597 BETAT (4) = -2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1096	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0500	1.0740	.4480	-.0110	-.2350	-.2380	-.1520	-.0520	-.0110	-.0180	-.0210	-.0240	-.0150	-.0080	.0150
30.000	1.0500		.4530	-.0090	-.2210	-.2170	-.1300	-.0290	.0090	-.0230	-.0240	-.0240	-.0110	-.0080	-.0180
60.000	1.0500		.4010	-.0490	-.2150	-.1960	-.0800	.0400	.0980	-.1390	-.0660	-.0220	-.0140	-.0130	.0010
90.000	1.0500	.9710	.3150	-.1240	-.2410	-.1980	-.0550	.0790	.1610	-1.1070	-.2550	-.1960	-.1630	-.1440	-.0810
120.000	1.0500		.2060	-.1990	-.3080	-.2650	-.1510	-.0590	-.0800	-.2540	-.0840	-.0550	-.0500	-.0420	-.0140
133.000	1.0500							-.0800		-.0720		-.0420		-.0370	
150.000	1.0500		.1400	-.2430	-.3460	-.2960	-.1770	-.0750	.0170	.0170	-.0300	-.0380	-.0440	-.0570	.0210
165.000	1.0500			-.2690	-.3430	-.2960	-.1710	-.0630	.0620	.0910	-.0320		-.0560		.0230
180.000	1.0500	.7860	.1050	-.2900	-.3420	-.2940	-.1680	-.0530	.0800	.1200	-.0340	-.0530	-.0660	-.0430	.0060
270.000	1.0500	.8800													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0240	-.0430	-.2990
30.000	-.0210	-.0310	-.2710
60.000	.0140	-.0370	-.3030
90.000			-.3270
120.000	.0590	-.0050	-.2950
135.000	.0590	-.0050	-.3600
150.000	.1040	-.0230	-.3640
165.000		-.0850	-.3070
180.000	.0870		

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-75? IA9 ORA + S3 + T5 EXTERNAL TANK (RBNT1D)

MACH (1) = .398 BETAT (5) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0530	1.0740	.4510	-.0100	-.2270	-.2280	-.1490	-.0530	-.0100	-.0170	-.0180	-.0170	-.0090	-.0080	.0210
30.000	1.0530		.4180	-.0440	-.2430	-.2330	-.1450	-.0380	.0060	-.0200	-.0150	-.0260	-.0180	-.0120	-.0300
60.000	1.0530		.3380	-.1010	-.2450	-.2140	-.0950	.0310	.0980	-.1360	-.0730	-.0380	-.0220	-.0150	-.0090
90.000	1.0530	.9280	.2560	-.1700	-.2630	-.2140	-.0640	.0730	.1690	-1.1310	-.2630	-.2130	-.1830	-.1810	-.0980
120.000	1.0530		.1620	-.2310	-.3070	-.2630	-.1430	-.0430	-.0600	-.2500	-.0890	-.0600	-.0390	-.0510	-.0200
135.000	1.0530							-.0610		-.0740		-.0570		-.0440	
150.000	1.0530		.1220	-.2540	-.3500	-.2940	-.1690	-.0620	.0290	.0090	-.0470	-.0510	-.0530	-.0430	.0140
165.000	1.0530			-.2730	-.3390	-.2950	-.1620	-.0540	.0670	.0840	-.0470		-.0570		.0170
180.000	1.0530	.7940	.1130	-.2800	-.3410	-.2930	-.1640	-.0500	.0030	.1210	-.0450	-.0420	-.0550	-.0400	.0180
270.000	1.0530	.9350													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0140	-.0420	-.2960
30.000	-.0140	-.0400	-.2850
60.000	.0120	-.0420	-.2370
90.000			-.2780
120.000	.0480	-.0370	-.3100
135.000	.0480	-.0380	-.3350
150.000	.0810	-.0650	-.3450
165.000		-.1560	-.2350
180.000	.1000		

MACH (1) = .398 BETAT (6) = 2.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0490	1.0700	.4460	-.0180	-.2370	-.2400	-.1540	-.0500	-.0110	-.0150	-.0220	-.0180	-.0090	-.0080	.0220
30.000	1.0490		.3720	-.0830	-.2690	-.2570	-.1560	-.0480	-.0020	-.0220	-.0210	-.0390	-.0280	-.0180	-.0340
60.000	1.0490		.2730	-.1600	-.2790	-.2300	-.1070	.0240	.1020	-.1300	-.0750	-.0400	-.0270	-.0220	-.0110
90.000	1.0490	.8760	.1960	-.2280	-.2900	-.2240	-.0610	.0810	.1830	-1.1100	-.2760	-.2220	-.1950	-.1760	-.1060
120.000	1.0490		.1210	-.2630	-.3220	-.2610	-.1330	-.0280	-.0390	-.2370	-.0940	-.0660	-.0640	-.0540	-.0280
135.000	1.0490							-.0470		-.0730		-.0670		-.0480	
150.000	1.0490		.0990	-.2790	-.3360	-.2760	-.1560	-.0470	.0370	.0050	-.0640	-.0610	-.0660	-.0500	.0020
165.000	1.0490			-.2860	-.3440	-.2360	-.1540	-.0440	.0690	.0680	-.0640		-.0730		.0010
180.000	1.0490	.7970	.1060	-.2900	-.3460	-.2850	-.1640	-.0460	.0870	.1200	-.0580	-.0480	-.0690	-.0450	.0050
270.000	1.0490	.9810													

X/LT	.7449	.8528	.9290

AMES 11-707 IA9 CRA + S3 + T9 EXTERNAL TANK (RBMT10)

MACH (1) = .598 BETAT (6) = 2.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0180	-.0390	-.3020
30.000	-.0160	-.0410	-.2710
60.000	.0130	-.0370	-.2370
90.000			-.2990
120.000	.0130	-.0390	-.2590
135.000	.0430	-.0580	-.3240
150.000	.0630	-.1090	-.3200
165.000		-.2310	-.2090
180.000	.0860		

MACH (1) = .597 BETAT (7) = 4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0420	1.0500	.4280	-.0270	-.2420	-.2480	-.1720	-.0590	-.0200	-.0250	-.0290	-.0270	-.0250	-.0190	.0040
30.000	1.0420		.3270	-.1240	-.2970	-.2850	-.1740	-.0610	-.0080	-.0290	-.0270	-.0470	-.0440	-.0350	-.0370
60.000	1.0420		.2160	-.2100	-.3040	-.2570	-.1180	.0160	.1040	-.1290	-.0800	-.0420	-.0330	-.0210	-.0150
90.000	1.0420	.8210	.1450	-.2600	-.3000	-.2350	-.0670	.0790	.1920	-1.1140	-.3080	-.2350	-.2000	-.1780	-.1050
120.000	1.0420		.0860	-.2880	-.3260	-.2390	-.1250	-.0170	-.0170	-.2260	-.1050	-.0740	-.0700	-.0590	-.0320
135.000	1.0420							-.0380		-.0790		-.0810		-.0570	
150.000	1.0420		.0790	-.2950	-.3390	-.2810	-.1490	-.0450	.0410	-.0120	-.1040	-.0850	-.0870	-.0710	-.0190
165.000	1.0420			-.2960	-.3460	-.2970	-.1550	-.0540	.0660	.0390	-.0860		-.1010		-.0340
180.000	1.0420	.7980	.1050	-.2940	-.3520	-.2990	-.1690	-.0600	.0790	.1020	-.0850	-.0810	-.0890	-.0750	-.0250
270.000	1.0420	1.0190													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0230	-.0570	-.3100
30.000	-.0220	-.0560	-.2660
60.000	.0100	-.0550	-.2570
90.000			-.2950
120.000	.0100	-.0510	-.2950
135.000	.0310	-.0690	-.2970
150.000	.0300	-.1330	-.2420
165.000		-.2590	-.1610
180.000	.0550		

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK (RBNT10)

MACH (1) = .598 BETAT (8) = 6.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.0190	1.0280	.4170	-.0370	-.2580	-.2640	-.1780	-.0840	-.0350	-.0470	-.0490	-.0490	-.0450	-.0480	-.0120
30.000	1.0190		.2810	-.1590	-.3240	-.3060	-.2020	-.0900	-.0270	-.0510	-.0460	-.0740	-.0620	-.0600	-.0790
60.000	1.0190		.1540	-.2550	-.3360	-.2810	-.1410	-.0010	.1040	-.1240	-.0800	-.0560	-.0420	-.0350	-.0140
90.000	1.0190	.7550	.0820	-.3090	-.3200	-.2450	-.0710	.0800	.2000	-1.1250	-.3300	-.2600	-.2330	-.2020	-.1150
120.000	1.0190		.0390	-.3270	-.3290	-.2580	-.1180	-.0100	-.0050	-.2210	-.1030	-.0830	-.0810	-.0380	-.0380
135.000	1.0190							-.0290		-.0800		-.0900		-.0620	
150.000	1.0190		.0450	-.3120	-.3460	-.2850	-.1570	-.0430	.0320	-.0320	-.1060	-.1130	-.1060	-.0880	-.0390
165.000	1.0190			-.3160	-.3540	-.3050	-.1640	-.0590	.0520	.0160	-.1070		-.1530		-.0830
180.000	1.0190	.7650	.0800	-.3090	-.3680	-.3170	-.1890	-.0730	.0560	.0840	-.1060	-.1220	-.1380	-.1260	-.0750
270.000	1.0190	1.0380													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0450	-.0810	-.3310
30.000	-.0440	-.0780	-.2730
60.000	.0000	-.0530	-.2310
90.000			-.3370
120.000	.0250	-.0550	-.2780
135.000	.0160	-.0720	-.2480
150.000	.0130	-.1510	-.1930
165.000		-.3020	-.1930
180.000	.0040		

MACH (1) = .596 BETAT (9) = 8.170

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	.9850	.9890	.3880	-.0560	-.2760	-.2860	-.1980	-.1100	-.0670	-.0720	-.0740	-.0780	-.0710	-.0880	-.0390
30.000	.9850		.2210	-.2020	-.3570	-.3380	-.2370	-.1150	-.0540	-.0710	-.0730	-.0930	-.0880	-.0880	-.1000
60.000	.9850		.0880	-.3040	-.3510	-.3020	-.1520	-.0090	.1080	-.1160	-.0900	-.0810	-.0550	-.0580	-.0240
90.000	.9850	.6730	.0260	-.3380	-.3200	-.2450	-.0630	.0840	.2130	-1.1120	-.3260	-.2780	-.2500	-.2320	-.1350
120.000	.9850		-.0060	-.3370	-.3240	-.2600	-.1100	.0040	.0110	-.2040	-.1130	-.0860	-.0830	-.0700	-.0380
135.000	.9850							-.0230		-.0880		-.1040		-.0770	
150.000	.9850		.0070	-.3330	-.3560	-.3050	-.1570	-.0530	.0340	-.0600	-.1340	-.1400	-.1330	-.1070	-.0470
165.000	.9850			-.3370	-.3680	-.3230	-.1840	-.0760	.0370	-.0260	-.1780		-.2020		-.1340
180.000	.9850	.7390	.0530	-.3230	-.3840	-.3320	-.2150	-.1000	.0310	.0510	-.1790	-.1790	-.2000	-.1980	-.1350
270.000	.9850	1.0560													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-707 IAC OEA + S3 + T9 EXTERNAL TANK (RBMT10)

MACH (1) = .598 BETAT (9) = 8.170

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0710	-.1090	-.3520
30.000	-.0700	-.0990	-.2750
60.000	-.0090	-.0610	-.2260
90.000			-.3870
120.000	.0170	-.0430	-.3070
135.000	.0160	-.0540	-.2160
150.000	.0180	-.1710	-.2090
165.000		-.2847	-.2060
180.000	-.0360		

MACH (2) = .901 BETAT (1) = -8.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1230	1.1400	.5090	.0061	-.3720	-.4490	-.2350	-.0490	-.0030	-.0820	-.1260	-.0790	-.0580	-.0380	-.0170
30.000	1.1230		.6300	.0990	-.2720	-.3110	-.1330	.0310	.0600	-.1290	-.0760	-.0240	-.0050	.0020	-.0170
60.000	1.1230		.6650	.1510	-.2150	-.2190	-.0090	.1600	.2300	-.2440	.0200	.0230	.0350	.0390	.0450
90.000	1.1230	1.1760	.5960	.0830	-.2650	-.2190	.0230	.1920	.3150	-.9740	-.2480	-.0520	.0440	.0290	.0820
120.000	1.1230		.4410	-.0490	-.3930	-.3590	-.1330	-.0100	-.0170	-.4350	-.2140	-.0720	.0070	-.0100	.0430
135.000	1.1230							-.0590		-.1380		-.0260		-.0580	
150.000	1.1230		.2900	-.1950	-.5400	-.5530	-.1580	-.0560	.0290	.0740	-.0660	-.0190	-.0500	-.1110	.0290
165.000	1.1230			-.2610	-.5970	-.6170	-.1280	-.0290	.1010	.1970	-.1190		-.1330		-.0900
180.000	1.1230	.8820	.1810	-.3040	-.6240	-.6280	-.0940	.0140	.1560	.1960	-.2310	-.1470	-.2130	-.2590	-.1090
270.000	1.1230	.8380													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0600	-.0630	-.2330
30.000	.0140	.0020	-.1870
60.000	.0650	.0320	-.1980
90.000			-.3560
120.000	.2060	.1890	-.1450
135.000	.2210	.2310	-.1540
150.000	.2160	.2540	-.1870
165.000		.2310	-.1720
180.000	.0390		

AMES 11-7X7 IA9 CBA + SS + T9 EXTERNAL TANK (RBMT10)

MACH (2) = .900 BETAT (2) = -6.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1480	1.1650	.5330	.0210	-.3540	-.4400	-.1760	-.0180	.0280	-.0640	-.1120	-.0520	-.0340	-.0290	.0020
30.000	1.1480		.6150	.0860	-.2890	-.3520	-.1180	.0410	.0810	-.1030	-.0820	-.0190	-.0010	.0060	-.0120
60.000	1.1480		.6150	.0970	-.2760	-.2570	-.0210	.1500	.2350	-.2260	.0050	.0075	.0220	.0240	.0330
90.000	1.1480	1.1570	.5390	.0230	-.3360	-.2400	.0170	.1910	.3200	-.9930	-.2490	-.0820	.0190	-.0040	.0380
120.000	1.1480		.3980	-.0950	-.4440	-.3570	-.1090	.0100	.0060	-.4280	-.2360	-.0940	-.0180	-.0330	.0330
135.000	1.1480							-.0270		-.1380		-.0310		-.0750	
150.000	1.1480		.2750	-.2080	-.5590	-.5950	-.1230	-.0260	.0580	.0630	-.0930	-.0250	-.0540	-.1030	.0240
165.000	1.1480			-.2610	-.5930	-.6220	-.1040	.0020	.1230	.1860	-.1350		-.1130		.0010
180.000	1.1480	.9040	.1980	-.3030	-.6200	-.5800	-.0760	.0310	.1710	.2280	-.1380	-.1020	-.1620	-.1950	-.0510
270.000	1.1480	.8990													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0300	-.0340	-.2000
30.000	.0140	.0100	-.1150
60.000	.0590	.0210	-.2040
90.000			-.3410
120.000	.1740	.1580	-.1720
135.000	.1900	.1800	-.1910
150.000	.1930	.1900	-.2140
165.000		.1500	-.1980
180.000	.0750		

MACH (2) = .903 BETAT (3) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1690	1.1860	.5500	.0300	-.3550	-.4320	-.1290	.0100	.0510	-.0450	-.1100	-.0280	-.0190	-.0090	.0170
30.000	1.1690		.5910	.0580	-.3240	-.3910	-.1050	.0510	.0950	-.0790	-.1090	-.0120	.0020	.0110	-.0130
60.000	1.1690		.5630	.0420	-.3380	-.3610	-.0270	.1470	.2420	-.2100	-.0030	-.0120	.0110	.0180	.0290
90.000	1.1690	1.1350	.4840	-.0390	-.4060	-.2700	.0150	.1920	.3290	-1.0120	-.2710	-.1110	-.0290	-.0320	.0110
120.000	1.1690		.3630	-.1340	-.4940	-.3630	-.0810	.0940	.0380	-.4200	-.2450	-.1000	-.0390	-.0840	.0110
135.000	1.1690							.0040		-.1280		-.0430		-.0890	
150.000	1.1690		.2860	-.2210	-.5710	-.6110	-.0920	.0070	.0910	.0570	-.1020	-.0350	-.0810	-.1[illegible]	.0280
165.000	1.1690			-.2630	-.6000	-.5930	-.0820	.0240	.1460	.1820	-.0990		-.0900		.0320
180.000	1.1690	.9250	.2100	-.2930	-.6080	-.4490	-.0630	.0440	.1850	.2300	-.1000	-.0670	-.1240	-.1520	.0540
270.000	1.1690	.9700													

X/LT	.7449	.8526	.9290
PHI			

ANES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT10)

MACH (2) = .903 BETAT (3) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0110	-.0170	-.1830
30.000	.0030	.0120	-.1680
60.000	.0630	.0140	-.2040
90.000			-.3300
120.000	.1520	.1240	-.2120
135.000	.1570	.1360	-.2150
150.000	.1670	.1280	-.2260
165.000		.0610	-.2130
180.000	.1180		

MACH (2) = .902 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1820	1.1980	.5580	.0370	-.3570	-.4330	-.1060	.0210	.0650	-.0370	-.0860	-.0200	-.0030	-.0030	.0310
30.000	1.1820		.5630	.0330	-.3560	-.4240	-.0940	.0520	.1060	-.0670	-.0860	-.0210	.0040	.0020	-.0150
60.000	1.1820		.5080	-.0110	-.3910	-.4170	-.0270	.1430	.2510	-.1940	-.0150	-.0200	.0050	-.0030	.0140
90.000	1.1820	1.1810	.4290	-.0920	-.4500	-.3280	.0220	.1950	.3390	-1.0270	-.2970	-.1220	-.0490	-.0750	-.0090
120.000	1.1820		.3200	-.1750	-.5110	-.3690	-.0540	.0560	.0630	-.4090	-.2540	-.0990	-.0540	-.0740	.0770
135.000	1.1820							.0320		-.1230		-.0470		-.0940	
150.000	1.1820		.2530	-.2350	-.5840	-.4920	-.0710	.0320	.1150	.0510	-.1040	-.0360	-.0730	-.1040	.0450
165.000	1.1820			-.2640	-.5980	-.4700	-.0640	.0410	.1630	.1750	-.1070		-.0950		.0440
180.000	1.1820	.9350	.2220	-.2830	-.6060	-.3860	-.0580	.0520	.1880	.2230	-.1060	-.0410	-.1030	-.1200	.0580
270.000	1.1820	1.0290													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0020	-.0030	-.1890
30.000	.0230	.0140	-.1750
60.000	.0580	.0080	-.2150
90.000			-.3230
120.000	.1130	.0900	-.2310
135.000	.1360	.0880	-.2460
150.000	.1530	.0700	-.2460
165.000		-.0540	-.2300
180.000	.1490		

AMES 11-70T IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT1D)

MACH (2) = .902 BETAT (5) = 2.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1099	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1820	1.1900	.5540	.0350	-.3520	-.4290	-.1100	.0200	.0640	-.0380	-.1180	-.0240	-.0090	-.[illegible]	.0340
30.000	1.1820		.4900	-.0310	-.4150	-.4870	-.0950	.0400	.1050	-.0470	-.1890	-.0280	-.0180	-.0150	-.0340
60.000	1.1820		.3920	-.1210	-.4890	-.5430	-.0240	.1330	.2600	-.1630	-.0730	-.0290	-.0180	-.0190	-.0010
90.000	1.1820	1.0130	.3140	-.2090	-.5510	-.2610	.0400	.2080	.3670	-1.0510	-.3140	-.1470	-.1580	-.1320	-.0820
120.000	1.1820		.2380	-.2490	-.5880	-.2170	-.0140	.1010	.1220	-.3460	-.2200	-.0770	-.0760	-.0810	-.0050
133.000	1.1820							.0810		-.0770		-.0560		-.0600	
150.000	1.1820		.2150	-.2660	-.5910	-.2910	-.0490	.0600	.1630	.0360	-.1580	-.0560	-.1170	-.1080	.0300
165.000	1.1820			-.2730	-.5980	-.3480	-.0460	.0620	.1830	.1650	-.1460		-.1190		.0290
180.000	1.1820	.9390	.2290	-.2770	-.6090	-.4160	-.0570	.0530	.1870	.2310	-.1490	-.0410	-.1100	-.1130	.0270
270.000	1.1820	1.1100													

X/LT	.7449	.8528	.9290
PHI			
.000	.0000	.0040	-.1720
30.000	.0000	-.0080	-.1950
60.000	.0490	-.0080	-.2440
90.000			-.3280
120.000	.0790	.0210	-.2730
133.000	.0970	.0010	-.2730
150.000	.1180	-.0650	-.2600
165.000		-.3030	-.1950
180.000	.1930		

MACH (2) = .901 BETAT (6) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.1710	1.1730	.5340	.0230	-.3510	-.4400	-.1340	.0060	.0480	-.0520	-.1240	-.0390	-.0180	-.0130	.0190
30.000	1.1710		.4410	-.0740	-.4540	-.5120	-.0970	.0290	.0940	-.0470	-.2580	-.0420	-.0390	-.0310	-.0810
60.000	1.1710		.3510	-.1760	-.5310	-.6080	-.0310	.1280	.2580	-.1560	-.1100	-.0430	-.0290	-.0290	-.0480
90.000	1.1710	.9829	.2810	-.2460	-.5820	-.3110	.0360	.2040	.3760	-1.0560	-.3330	-.1830	-.1280	-.1520	-.0830
120.000	1.1710		.1980	-.2860	-.6080	-.2210	-.0060	.1060	.1480	-.3150	-.2250	-.0640	-.0961	-.1730	-.0150
133.000	1.1710							.0970		-.0800		-.0640		-.1040	
150.000	1.1710		.1940	-.2900	-.6160	-.2680	-.0400	.0700	.1710	.0540	-.2625	-.0740	-.1410	-.1480	.0090
165.000	1.1710			-.2910	-.6090	-.3550	-.0500	.0580	.1840	.1550	-.2430		-.1590		-.0140
180.000	1.1710	.9370	.2210	-.2850	-.6050	-.5620	-.0680	.0400	.1800	.2270	-.2430	-.0880	-.1550	-.1590	-.0090
270.000	1.1710	1.1450													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-M?? 1A9 ORA + 5? + ?9 EXTERNAL TANK (REWT1?)

MACH (?) = .9?1 BETA? (B) = 4.193

SECTION ? ??EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .?489 .?928 .9290

PHI

.???	-.?09?	-.?14?	-.1879
3?.???	.?7??	-.?28?	-.2186
6?.???	.?48?	-.?2??	-.256?
9?.???			.33??
12?.???	.?65?	-.?4??	-.2?1?
15?.???	.?7??	-.?5??	-.2?1?
18?.???	.?8??	-.?6??	-.2?2?
21?.???		-.?7??	-.?4??
24?.???	.?11?		

MACH ?) = .?? BETA? (?) = 8.?4

SECTION ??EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .?489 .?928 .?852 .?9?? .??34 .??3 .?121 .?538 .?874 .3a12 .995? .4489 .5?2? .??69 .8??7

PHI

.???	1.1599	1.1569	.9299	.?11?	-.?42?	.4??	-.18??	-.?16??	.?9??	-.?66?	-.1???	-.?56?	.?2??	-.?31?	.?9??
3?.???	1.1599		.8?2?	-.?14??	-.4??	-.544	-.11??	.?4??	.?4?	-.14??	-.22??	-.?5??	-.?48??	-.?49	-.?9?
6?.???	1.1599		.?7??	-.?2??	-.?7??	-.?A2?	-.?6??	.12??	.?4?	-.144?	-.12??	-.?6??	-.?3??	-.?2?	.???
9?.???	1.1599	.9?2?	.?59?	-.?96??	-.?6??	-.?4??	.?3??	.199?	.?4?	-1.42??	-.54??	-.17??	-.15??	-.?19?	-.11??
12?.???	1.1599		.15??	-.?24??	-.??	.?7??	.?4?	?14	.?6??	-.?8??	-.??	.?4??	-.?6??	-.?1??	-.??
15?.???	1.1599							?4?		-.??		-.?6??		-.?.??	
18?.???	1.1599		.?49?	-.?1??	-.?1??	-.?1??	-.??	?6?	.?9??	.?31?	-.?7??	-.??	-.?8??	-.?9??	.?4?
21?.???	1.1599			-.?1??	-.?6??	-.?4?	-.?.??	.?8??	.?84?	.?62?	-.?6??		-.?9??		-.??
24?.???	1.1599	.912?	.?99?	-.?9??	-.?1??	-.?6??	-.?9??	.?9??	.?9?	-.?4??	-.?6??	-.?.??	-.?7??	-.?8??	-.??
2??.???	1.1599	1.182?													

X/LT .7449 .0928 .9290

PHI

.???	-.?2??	-.?39?	-.2?1?
3?.???	-.?2??	-.?41?	-.232?
6?.???	.?4??	-.?25?	-.284?
9?.???			-.33??
12?.???	.?4??	-.?13?	-.2???
15?.???	.?8??	-.?3??	-.248?
18?.???	.?9??	-.?14?	-.199?
21?.???		-.?25?	-.2??
24?.???	.?2??		

AMES 11-FOOT IA9 CRA - 53 - 79 EXTERNAL TANK (EBWT15)

MACH (2) = .900 BETAT (8) = 9.280

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6379
PHI															
.000	1.1220	1.1280	.5060	.0940	-.3720	-.4550	-.2480	-.0420	-.0040	-.0820	-.1330	-.1410	-.0820	-.0390	-.0280
30.000	1.1220		.3300	-.1500	-.5180	-.5950	-.1530	-.0120	.0580	-.0810	-.2590	-.0420	-.0790	-.0440	-.0190
60.000	1.1220		.2140	-.2810	-.5140	-.6710	-.0260	.1110	.2650	-.1320	-.1930	-.0440	-.0370	-.0310	-.0140
90.000	1.1220	.8310	.1480	-.3410	-.6600	-.1680	.0230	.1540	.3980	-1.0280	-.3750	-.1310	-.1830	-.2280	-.1310
120.000	1.1220		.1070	-.3610	-.6650	-.1990	.0110	.1940	.1850	-.2640	-.2350	-.0640	-.1130	-.1190	-.0330
135.000	1.1220							.0850		-.0460		-.0750		-.1320	
150.000	1.1220		.1230	-.3470	-.6610	-.2160	-.0010	.0660	.1830	.0390	-.4340	-.1070	-.1770	-.1830	-.0140
165.000	1.1220			-.3520	-.6550	-.3261	-.0820	.0450	.1800	.1240	-.4410		-.2390		-.0950
180.000	1.1220	.8870	.1790	-.3140	-.6410	-.0770	-.0975	.0050	.1530	.2150	-.4380	-.1550	-.2190	-.2380	-.1120
270.000	1.1220	1.1840													

X/LT	.7449	.8528	.9200
PHI			
.000	-.0460	-.0790	-.2390
30.000	-.0450	-.0670	-.2590
60.000	.0490	-.0390	-.2590
90.000			-.3280
120.000	.0490	-.0300	-.2650
135.000	.0800	-.0390	-.2170
150.000	.0800	-.1980	-.2170
165.000		-.3040	-.2040
180.000	.0340		

MACH (3) = 1.103 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6379
PHI															
.000	1.2530	1.2670	.6770	.2090	-.1590	-.2360	-.3420	-.2820	.1310	.1090	-.0520	-.1200	-.1050	-.0890	-.0410
30.000	1.2530		.7820	.2880	-.0750	-.1660	-.2740	-.2010	.1940	.0820	-.1220	.0080	-.0190	-.0020	-.0710
60.000	1.2530		.8130	.3280	-.0500	-.1390	-.2500	.0740	.3920	.0380	-.3740	.0370	.0320	.0820	.0320
90.000	1.2530	1.2990	.7450	.2670	-.1060	-.1940	-.3000	.2240	.4520	-.5240	-.3700	-.0770	.0740	.0980	.0200
120.000	1.2530		.6120	.1490	-.2120	-.2830	-.3780	-.0421	.0890	-.2480	-.3000	-.0940	.0910	.1110	-.0420
135.000	1.2530							-.2160		-.0550		-.0370		.0740	
150.000	1.2530		.4770	.0320	-.3080	-.3810	-.4600	-.3940	.0930	.1750	-.0390	-.0415	.0840	.0190	-.0770
165.000	1.2535			-.0240	-.3490	-.4150	-.4880	-.1260	.1420	.3360	-.1040		-.0050		-.1840
180.000	1.2530	1.0380	.3820	-.0650	-.3710	-.4360	-.5120	-.0810	.1420	.3490	-.1040	-.2790	-.0010	-.1450	-.2780
270.000	1.2530	.5950													

X/LT	.7449	.8528	.9290

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT1D)

MACH (3) = 1.103 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0430	.0510	-.0410
30.000	.0230	.1150	.0150
60.000	.0790	.1460	-.0020
90.000			-.2040
120.000	.1960	.3240	.0950
135.000	.2160	.3640	.1140
150.000	.2290	.3950	.0960
165.000		.3990	.1170
180.000	.0760		

MACH (3) = 1.103 BETAT (2) = -6.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2760	1.2900	.6960	.2230	-.1480	-.2360	-.3380	-.2760	.1920	.1610	-.0110	-.1540	-.0870	-.0640	.0220
30.000	1.2760		.7660	.2730	-.1010	-.1860	-.2950	-.2210	.2260	.1310	-.1370	-.0080	-.0400	-.0050	-.0230
60.000	1.2760		.7660	.2790	-.0970	-.1830	-.2910	-.1160	.4000	.0590	-.3580	.0260	.0130	.0400	.0430
90.000	1.2760	1.2810	.6950	.2130	-.1520	-.2410	-.3420	.1430	.4630	-.5370	-.3560	-.0930	.0490	.0750	.0190
120.000	1.2760		.5750	.1140	-.2430	-.3210	-.4090	-.0940	.1460	-.2160	-.3150	-.0840	.0790	.0880	-.0620
135.000	1.2760							-.2680		-.0210		-.0300		.0460	
150.000	1.2760		.4650	.0190	-.3160	-.3950	-.4720	-.1170	.1190	.1840	-.0890	.0610	.0920	-.0050	-.0760
165.000	1.2760			-.0300	-.3460	-.4150	-.4920	-.0550	.1140	.3190	-.1660		.0520		-.1090
180.000	1.2760	1.0590	.3940	-.0610	-.3660	-.4310	-.1890	-.0650	.1080	.3120	-.1660	-.0530	.0120	-.1030	-.2270
270.000	1.2760	1.0570													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0260	.0080	-.0030
30.000	.0250	.0890	.0270
60.000	.0830	.1070	-.0120
90.000			-.2120
120.000	.1470	.2830	.0680
135.000	.1810	.3150	.0810
150.000	.2010	.3340	.0670
165.000		.3090	.0840
180.000	.1080		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT10)

MACH (3) = 1.102 BETAT (3) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2940	1.3040	.7060	.2260	-.1450	-.2270	-.3330	-.2650	.2510	.1900	.0060	-.1640	-.0690	-.0410	.0610
30.000	1.2940		.7420	.2510	-.1220	-.2040	-.3130	-.2400	.2400	.1620	-.0710	-.0360	-.0510	.0010	.0050
60.000	1.2940		.7200	.2340	-.1320	-.2170	-.3230	-.2270	.4030	.0760	-.3400	.0070	-.0180	.0440	.0490
90.000	1.2940	1.2590	.6480	.1680	-.1910	-.2770	-.3750	.0730	.4750	-.3400	-.3380	-.1070	.0290	.0690	-.0030
120.000	1.2940		.5420	.0810	-.2670	-.3430	-.4280	-.0710	.1770	-.1920	-.3320	-.0690	.0750	.0740	-.0840
135.000	1.2940							-.0440		-.0030		.0420		.0390	
150.000	1.2940		.4590	.0080	-.3270	-.3950	-.4150	-.0510	.0830	.1800	-.1330	.0800	.0820	-.0040	-.0930
165.000	1.2940			-.0290	-.3510	-.4090	-.1010	-.0500	.0630	.2750	-.1680		.0540		-.1010
180.000	1.2940	1.0710	.4050	-.0570	-.3560	-.4220	-.0480	-.0320	.0420	.2520	-.1420	-.0250	.0410	-.0490	-.1550
270.000	1.2940	1.1070													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0140	-.0070	.0170
30.000	.0480	.0390	.0190
60.000	.0940	.0720	-.0270
90.000			-.2140
120.000	.1220	.2410	.0460
135.000	.1470	.2570	.0460
150.000	.1790	.2570	.0460
165.000		.1340	.0330
180.000	.1250		

MACH (3) = 1.102 BETAT (4) = -2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3030	1.3130	.7140	.2320	-.1370	-.2260	-.3310	-.2670	.2330	.2100	.0220	-.1660	-.0500	.0010	.0770
30.000	1.3030		.7200	.2320	-.1400	-.2250	-.3290	-.2640	.2530	.1820	-.0540	-.0780	-.0460	.0340	.0090
60.000	1.3030		.6720	.1900	-.1690	-.2560	-.3560	-.2800	.3880	.0950	-.3220	-.0190	-.0090	.0660	.0420
90.000	1.3030	1.2910	.5960	.1200	-.2290	-.3130	-.4080	.0360	.4850	-.5510	-.3300	-.1120	.0330	.0590	-.0310
120.000	1.3030		.5060	.0480	-.2920	-.3660	-.4460	-.0410	.1970	-.1680	-.3200	-.0570	.0750	.0500	-.1160
135.000	1.3030							-.0440		.0290		.0530		.0240	
150.000	1.3030		.4440	-.0050	-.3370	-.4040	-.2270	-.0630	.0550	.1870	-.1280	.0600	.0750	-.0130	-.1030
165.000	1.3030			-.0320	-.3490	-.4150	-.0600	-.0500	.0440	.2370	-.0410		.0610		-.1090
180.000	1.3030	1.0800	.4150	-.0500	-.3550	-.4210	-.0440	-.0390	.0650	.2250	-.0470	.0440	.0680	-.0230	-.1200
270.000	1.3030	1.1550													

X/LT	.7449	.8526	.9290

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK (RBHT10)

MACH (3) = 1.102 BETAT (4) = -2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	.0040	-.0260	.0170
30.000	.0460	.0020	.0070
60.000	.0990	.0310	-.0490
90.000			-.2170
120.000	.0980	.1820	.0000
135.000	.1180	.1880	.0070
150.000	.1440	.1790	-.0110
165.000		.0600	-.0100
180.000	.1370		

MACH (3) = 1.102 BETAT (5) = 2.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3020	1.3100	.7160	.2350	-.1320	-.2220	-.3250	-.2630	.2150	.2060	.0210	-.1640	-.0520	-.0260	.0820
30.000	1.3020		.6580	.1790	-.1910	-.2660	-.3670	-.3030	.2030	.2010	-.0450	-.1340	-.0720	-.0250	.0050
60.000	1.3020		.5700	.0990	-.2440	-.3230	-.4170	-.1280	.2600	.1590	-.2550	-.0650	-.0610	.0030	.0380
90.000	1.3020	1.1480	.4920	.0290	-.3050	-.3770	-.4620	-.0230	.5120	-.5600	-.3880	-.1390	.0130	.0030	-.0760
120.000	1.3020		.4290	-.0220	-.3420	-.4080	-.4820	-.0480	.1930	-.1000	-.2620	.0370	.0680	-.0130	-.1810
135.000	1.3020							-.0710		.1210		.0660		-.0330	
150.000	1.3020		.4090	-.0410	-.3580	-.4200	-.1360	-.0760	.0380	.1980	-.1160	.0040	.0930	-.0510	-.1900
165.000	1.3020			-.0490	-.3590	-.4200	-.0820	-.0540	.0540	.2250	-.0450		.0560		-.1420
180.000	1.3020	1.0810	.4160	-.0520	-.3570	-.4190	-.0510	-.0440	.0500	.2270	-.0410	.0010	.0630	-.0240	-.1130
270.000	1.3020	1.2360													

X/LT	.7449	.8526	.9290
PHI			
.000	.0190	-.0210	-.0010
30.000	.0190	-.0210	-.0170
60.000	.0920	.0060	-.0580
90.000			-.1560
120.000	.0760	.1100	-.0730
135.000	.0910	.0780	-.0490
150.000	.1070	-.0030	-.0810
165.000		-.2160	-.1020
180.000	.1430		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT1D)

MACH (3) = 1.102 BETAT (6) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.9027	.5565	.6372
PHI															
.000	1.2980	1.2960	.7010	.2250	-.1400	-.2270	-.3340	-.2670	.2170	.1840	-.0010	-.1580	-.0720	-.0450	.0860
30.000	1.2980		.6170	.1420	-.2190	-.2900	-.3900	-.3270	.1950	.1940	-.0210	-.1640	-.0920	-.0480	-.0090
60.000	1.2980		.5180	.0500	-.2810	-.3550	-.4420	-.0300	.1900	.1880	-.2110	-.0970	-.0600	-.0140	.0100
90.000	1.2980	1.1040	.4440	-.0120	-.3360	-.4000	-.4810	-.0450	.5470	-.5470	-.3750	-.1250	.0020	-.0220	-.0970
120.000	1.2980		.3940	-.0500	-.3630	-.4240	-.3530	-.0570	.1440	-.0590	-.2590	.0610	.0590	-.0430	-.2110
135.000	1.2980							-.0650		.1550		.0450		-.0540	
150.000	1.2980		.3860	-.0580	-.3680	-.4250	-.0940	-.0640	.0370	.1770	-.1050	-.0040	.0390	-.0650	-.1890
165.000	1.2980			-.0580	-.3630	-.4280	-.0610	-.0450	.0550	.2150	-.0430		.0280		-.1730
180.000	1.2980	1.0790	.4120	-.0530	-.3620	-.4210	-.0540	-.0350	.0310	.2590	-.0350	-.0980	.0360	-.0570	-.1490
270.000	1.2980	1.2680													

X/LT	.7449	.8526	.9290
PHI			
.000	.0090	-.0190	.0290
30.000	.0090	-.0230	.0020
60.000	.0770	.0190	-.0510
90.000			-.1290
120.000	.0770	.0870	-.0650
135.000	.0830	.0360	-.0900
150.000	.0970	-.0080	-.1230
165.000		-.1160	-.1510
180.000	.1160		

MACH (3) = 1.100 BETAT (7) = 6.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.9027	.5565	.6372
PHI															
.000	1.2760	1.2600	.6950	.2210	-.1440	-.2330	-.3300	-.2680	.1870	.1510	-.0210	-.1410	-.0880	-.0640	.0120
30.000	1.2760		.5800	.1170	-.2440	-.3140	-.4120	-.3480	.1680	.1910	-.0210	-.1870	-.1110	-.0730	-.0480
60.000	1.2760		.4680	.0130	-.3130	-.3870	-.4700	-.0390	.1460	.2040	- .540	-.1280	-.0940	-.0290	-.0070
90.000	1.2760	1.0480	.3960	-.0360	-.3620	-.4250	-.2120	-.0660	.5510	-.5320	-.3840	-.1380	-.0170	-.0330	-.1130
120.000	1.2760		.3540	-.0860	-.3780	-.4370	-.1220	-.0600	.0610	-.0220	-.2360	.0290	.0430	-.0700	-.2390
135.000	1.2760							-.0610		.1380		.0140		-.0810	
150.000	1.2760		.3590	-.0790	-.3800	-.4410	-.0750	-.0630	.0320	.1860	-.1400	-.0220	.0190	-.1150	-.2200
165.000	1.2760			-.0750	-.3770	-.4390	-.0540	-.0490	.0470	.1920	-.2360		-.0040		-.2390
180.000	1.2760	1.0550	.3950	-.0390	-.3680	-.4280	-.0700	-.0530	.0380	.2890	-.2190	-.0960	.0160	-.1150	-.2170
270.000	1.2760	1.2840													

AMES 11-707 1A9 OEA + S3 + T9 EXTERNAL TANK (RBNT10)

MACH (3) = 1.100 BETAT (7) = 6.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0200	.0080	.0040
30.000	-.0190	-.0080	-.0280
60.000	.0570	.0470	-.0570
90.000			-.1290
120.000	.0790	.0750	-.0970
135.000	.1000	.0340	-.1420
150.000	.1000	-.1080	-.1610
165.000		-.2380	-.1890
180.000	.0800		

MACH (3) = 1.108 BETAT (8) = 8.280

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2550	1.2540	.6740	.2080	-.1540	-.2430	-.3440	-.2790	.1280	.1010	-.0580	-.1090	-.1130	-.0980	-.0390
30.000	1.2550		.5340	.0790	-.2730	-.3410	-.4370	-.3810	.1530	.1760	-.0570	-.2080	-.1460	-.1110	-.0820
60.000	1.2550		.4130	-.0380	-.3480	-.4180	-.5000	-.0500	.0880	.2010	-.1180	-.1710	-.1280	-.0580	-.0280
90.000	1.2550	.9900	.3530	-.0930	-.3870	-.4510	-.1250	-.0860	.5600	-.5260	-.3970	-.2050	-.0490	-.0680	-.1660
120.000	1.2550		.3140	-.1130	-.3960	-.4520	-.0970	-.0690	.0360	.0130	-.1910	-.0330	.0130	-.1020	-.2870
135.000	1.2550							-.0640		.1250		-.0420		-.1190	
150.000	1.2550		.3300	-.1010	-.3960	-.4550	-.0840	-.0590	.0240	.1540	-.1470	-.0680	-.0140	-.1440	-.2560
165.000	1.2550			-.0880	-.3890	-.4530	-.0750	-.0510	.0430	.1870	-.2710		-.0420		-.3390
180.000	1.2550	1.0380	.3750	-.0700	-.3790	-.4400	-.0860	-.0530	.0280	.2830	-.3140	-.2130	-.0420	-.1660	-.2670
270.000	1.2550	1.3050													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0650	.0150	-.0500
30.000	-.0300	-.0140	-.0620
60.000	.0700	.0340	-.0800
90.000			-.1460
120.000	.0930	.0460	-.1460
135.000	.1100	-.0200	-.1740
150.000	.1110	-.1910	-.1900
165.000		-.2930	-.1960
180.000	.0580		

DATE 24 SEP 75 TABULATED PRESSURE DATA - IASA

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT1D)

MACH (4) = 1.248 BETAT (1) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3380	1.3450	.7340	.2770	-.0660	-.1450	-.2460	-.2050	-.1210	.0870	.0510	-.0870	-.0650	-.0780	-.0590
30.000	1.3380		.8410	.3740	.0090	-.0730	-.1760	-.1350	.2230	.1140	-.1260	-.0540	.0200	.0000	-.0410
60.000	1.3380		.8690	.3950	.0310	-.0560	-.1570	-.1120	.4330	.1600	-.2990	-.0480	.0620	.0580	.0330
90.000	1.3380	1.3790	.8080	.3390	-.0160	-.1050	-.2010	-.1650	.5250	-.3230	-.3380	-.1150	.0240	.1060	.0620
120.000	1.3380		.6730	.2240	-.1160	-.1930	-.2730	-.2420	.1080	-.2000	-.2050	-.1360	.0030	.1040	.0420
135.000	1.3380							-.2870		-.1030		-.1090		.0870	
150.000	1.3380		.5390	.1070	-.2070	-.2810	-.3500	-.3210	.0140	.1820	.1220	-.1150	-.0080	.0370	.0420
165.000	1.3380			.0540	-.2440	-.3140	-.3830	-.3440	.0670	.3090	.0420		-.0640		.0280
180.000	1.3380	1.1110	.4390	.0120	-.2700	-.3380	-.4050	-.3570	.0290	.3520	-.0960	-.1670	-.2070	-.1950	-.0860
270.000	1.3380	1.0680													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0650	.0950	.0140
30.000	-.0200	.0950	.0730
60.000	.0800	.0710	.0550
90.000			-.2790
120.000	.1400	.3540	.2280
135.000	.1480	.4000	.2090
150.000	.1360	.4260	.1850
165.000		.4310	.2040
180.000	-.0840		

MACH (4) = 1.248 BETAT (2) = -6.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3380	1.3690	.7550	.2940	-.0550	-.1350	-.2370	-.1950	-.1280	.1930	.0980	-.0740	-.0910	-.0540	-.0320
30.000	1.3380		.8250	.3560	-.0090	-.0880	-.1930	-.1470	.1730	.1490	-.0190	-.0740	.0160	-.0120	-.0330
60.000	1.3380		.8280	.3520	-.0050	-.0880	-.1890	-.1460	.4010	.1710	-.2910	-.0310	.0530	.0550	.0110
90.000	1.3380	1.3810	.7550	.2890	-.0570	-.1410	-.2330	-.1970	.5150	-.3270	-.3650	-.1270	.0260	.1010	.0490
120.000	1.3380		.6370	.1880	-.1400	-.2180	-.2960	-.2610	.1000	-.1850	-.1580	-.1420	.0040	.0960	.0230
135.000	1.3380							-.2980		-.0270		-.1520		.0960	
150.000	1.3380		.5250	.0950	-.2160	-.2880	-.3540	-.3200	.0890	.2460	.0610	-.1560	.0370	.0430	.0260
165.000	1.3380			.0530	-.2440	-.3100	-.3750	-.3400	.0730	.3330	.0140		-.0320		-.0090
180.000	1.3380	1.1290	.4530	.0230	-.2600	-.3250	-.3900	-.3430	.0810	.3400	-.0060	-.1190	-.1950	.0700	-.0820
270.000	1.3380	1.1250													

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT10)

MACH (4) = 1.248 BETAT (2) = -6.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0370	.0090	.0110
30.000	.0100	.0430	.0480
60.000	.0650	.0590	.0300
90.000			-.2750
120.000	.0900	.3230	.1330
135.000	.0900	.3510	.1680
150.000	.0790	.3590	.1670
165.000		.3370	.1720
180.000	-.1510		

MACH (4) = 1.250 BETAT (3) = -4.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3760	1.3820	.7620	.3000	-.0470	-.1280	-.2280	-.1910	-.1220	.2620	.1180	-.0650	-.1040	-.0410	-.0170
30.000	1.3760		.8010	.3340	-.0200	-.1040	-.2100	-.1630	.1380	.1700	.0530	-.0840	-.0080	-.0220	-.0400
60.000	1.3760		.7780	.3120	-.0400	-.1230	-.2190	-.1780	.3460	.1850	-.2720	-.0270	.0310	.0140	-.0050
90.000	1.3760	1.3370	.7070	.2440	-.0930	-.1770	-.2650	-.2290	.5080	-.3330	-.3790	-.1200	.0130	.0750	.0320
120.000	1.3760		.6030	.1540	-.1630	-.2400	-.3170	-.2790	.0990	-.1140	-.1620	-.1460	.0180	.0660	-.0090
135.000	1.3760							-.3040		.0220		-.2040		.0680	
150.000	1.3760		.5160	.0850	-.2200	-.2910	-.3610	-.3230	.1120	.2340	-.0150	-.1110	-.0220	.0580	-.0100
165.000	1.3760			.0530	-.2410	-.3070	-.3730	-.3300	.0610	.3110	-.0020		-.0980		-.0400
180.000	1.3760	1.1450	.4640	.0270	-.2490	-.3160	-.3830	-.0750	.0290	.2700	-.0410	-.0900	-.2050	.1210	-.0710
270.000	1.3760	1.1830													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0190	.0200	.0190
30.000	.0200	.0900	.0420
60.000	.0700	.0540	.0210
90.000			-.2070
120.000	.0350	.2810	.1510
135.000	.0350	.2930	.1460
150.000	.0070	.2870	.1490
165.000		.1660	.1470
180.000	-.0980		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RUN T19

MACH (4) = 1.249 BETAT (4) = -2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3870	1.3920	.7720	.3060	-.0490	-.1280	-.2240	-.1910	-.1110	.2960	.1290	-.0610	-.1060	-.0340	-.0010
30.000	1.3870		.7780	.3130	-.0490	-.1260	-.2280	-.1630	.1130	.2290	.0460	-.0880	-.0260	-.0340	-.0380
60.000	1.3870		.7540	.2640	-.0780	-.1580	-.2490	-.2110	.2920	.2090	-.2390	-.0260	.0120	-.0130	-.0120
90.000	1.3870	1.3070	.6560	.1960	-.1320	-.2140	-.2960	-.2600	.5120	-.3470	-.3790	-.1580	-.0320	.0510	.0090
120.000	1.3870		.5660	.1210	-.1910	-.2650	-.3380	-.2980	.1630	-.0880	-.2080	-.1360	.0330	.0980	-.0470
135.000	1.3870							-.3090		.0520		-.1640		.1010	
150.000	1.3870		.5050	.0690	-.2300	-.3000	-.3670	-.2390	.0480	.1840	-.0360	-.0940	-.0230	.1020	-.0490
165.000	1.3870			.0480	-.2450	-.3090	-.3750	-.0410	.0290	.2240	.0270		-.1020		-.0400
180.000	1.3870	1.1560	.4710	.0310	-.2490	-.3160	-.3780	-.0160	.0340	.2030	.0270	-.0830	-.1740	.1170	-.0400
270.000	1.3870	1.2330													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0050	.0280	.0220
30.000	.0210	.0440	.0220
60.000	.0810	.0550	.0220
90.000			-.1310
120.000	.0130	.2250	.0720
135.000	.0160	.2240	.1090
150.000	.0410	.2040	.1020
165.000		.0680	.1040
180.000	.0820		

MACH (4) = 1.245 BETAT (5) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3870	1.3880	.7680	.3020	-.0470	-.1290	-.2310	-.1900	-.1170	.2880	.1310	-.0630	-.1110	-.0430	.0000
30.000	1.3870		.7120	.2510	-.0990	-.1680	-.2660	-.2250	.0180	.2410	.1070	-.1120	-.0850	-.0570	-.0500
60.000	1.3870		.6280	.1700	-.1510	-.2270	-.3060	-.2750	.2760	.2360	-.1890	-.0340	-.0410	-.0500	-.0190
90.000	1.3870	1.2270	.5540	.1050	-.2000	-.2770	-.3540	-.3050	.5410	-.3430	-.4190	-.1870	-.0840	.0040	-.0200
120.000	1.3870		.4910	.0570	-.2340	-.3080	-.3750	-.3260	.0890	-.0270	-.2040	-.0910	.0350	.0730	-.0980
135.000	1.3870							-.1900		.1620		-.1820		.0720	
150.000	1.3870		.4690	.0440	-.2510	-.3180	-.3760	-.0480	.0300	.1700	.0050	-.1580	.0040	.0620	-.0900
165.000	1.3870			.0370	-.2530	-.3170	-.3810	-.0220	.0390	.2160	.0400		-.1220		-.0680
180.000	1.3870	1.1990	.4740	.0350	-.2480	-.3160	-.3830	-.0200	.0330	.2070	.0340	-.0910	-.2070	.1200	-.0500

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT10)

MACH (4) = 1.245 BETAT (5) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0130	.0280	.0130
30.000	.0110	.0240	.0070
60.000	.0860	.0340	-.0180
90.000			-.0830
120.000	.0300	.1140	-.0020
135.000	.0500	.0930	.0220
150.000	.0980	.0380	-.0020
165.000		-.1000	-.0670
180.000	.0870		

MACH (4) = 1.247 BETAT (6) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3810	1.3720	.7540	.2900	-.0580	-.1360	-.2330	-.1960	-.1260	.2640	.1010	-.0750	-.0970	-.0570	-.0150
30.000	1.3810		.6710	.2140	-.1220	-.1930	-.2870	-.2480	.0160	.2620	.1010	-.1310	-.0990	-.0680	-.0720
60.000	1.3810		.5760	.1290	-.1810	-.2590	-.3410	-.3030	.1130	.3030	-.1540	-.0240	-.0630	-.0670	-.0320
90.000	1.3810	1.1800	.5070	.0630	-.2290	-.3060	-.3780	-.3320	.5370	-.3460	-.3870	-.2020	-.1320	-.0190	-.0340
120.000	1.3810		.4520	.0260	-.2540	-.3230	-.3810	-.3310	.0540	.0130	-.1740	-.0660	.0160	.0570	-.1190
135.000	1.3810							-.1450		.1820		-.1710		.0570	
150.000	1.3810		.4480	.0240	-.2600	-.3280	-.3850	-.0590	.0260	.1580	.0000	-.1890	-.0330	.0580	-.1170
165.000	1.3810			.0220	-.2590	-.3250	-.3910	-.0340	.0420	.2020	-.0370		-.2020		-.1190
180.000	1.3810	1.1580	.4710	.0270	-.2540	-.3210	-.3900	-.0560	.0300	.2450	-.0320	-.0850	-.2210	.1130	-.0820
270.000	1.3810	1.3450													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0170	.0170	.0060
30.000	-.0150	.0070	-.0130
60.000	.0860	.0190	-.0320
90.000			-.0910
120.000	.0280	.0840	-.0150
135.000	.0620	.0830	.0190
150.000	.0800	-.0080	-.0160
165.000		-.2250	-.1260
180.000	-.0790		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT1D)

MACH (4) = 1.248 BETAT (7) = 6.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3620	1.3380	.7490	.2900	-.0590	-.1420	-.2370	-.2040	-.1250	.1840	.0800	-.0840	-.0920	-.0830	-.0380
30.000	1.3620		.6390	.1910	-.1460	-.2180	-.3050	-.2770	-.1760	.2810	.0800	-.1390	-.1200	-.0910	-.0940
60.000	1.3620		.5280	.0850	-.2190	-.2920	-.3720	-.3360	.1030	.3300	-.1160	-.0460	-.0980	-.1000	-.0350
90.000	1.3620	1.1310	.4570	.0220	-.2620	-.3350	-.4030	-.1830	.5270	-.3500	-.3460	-.1860	-.2070	-.0380	-.0870
120.000	1.3620		.4140	-.0040	-.2770	-.3460	-.4010	-.1270	.0320	.0510	-.1360	-.0570	-.0300	.0390	-.1340
135.000	1.3620							-.0790		.1610		-.1400		.0370	
150.000	1.3620		.4190	.0030	-.2780	-.3450	-.4020	-.0530	.0340	.1620	-.0390	-.2270	-.1210	.0250	-.1210
165.000	1.3620			.0060	-.2700	-.3390	-.4020	-.0830	.0450	.1880	-.1420		-.2640		-.1490
180.000	1.3620	1.1380	.4540	.0200	-.2630	-.3300	-.4010	-.3290	.0560	.2920	-.1200	-.1190	-.2190	.0715	-.0870
270.000	1.3620	1.3640													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0350	-.0020	.0030
30.000	-.0180	-.0110	.0030
60.000	.0720	.0290	-.0200
90.000			-.0870
120.000	.0480	.1030	-.0590
135.000	.0790	.1000	-.0620
150.000	.0870	.0680	-.1230
165.000		-.2020	-.1640
180.000	-.1290		

MACH (4) = 1.247 BETAT (8) = 8.220

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3380	1.3290	.7290	.2770	-.0710	-.1480	-.2480	-.2100	-.0800	.0230	.0490	-.0920	-.0880	-.0910	-.0500
30.000	1.3380		.5910	.1450	-.1770	-.2450	-.3300	-.3050	-.2290	.2590	.0490	-.1540	-.1330	-.1180	-.1180
60.000	1.3380		.4700	.0350	-.2540	-.3220	-.4000	-.3660	.1320	.3050	-.1130	-.0710	-.1110	-.1110	-.0260
90.000	1.3380	1.0880	.4030	-.0210	-.2900	-.3590	-.4210	-.0790	.5370	-.3470	-.3230	-.1560	-.2850	-.0960	-.0970
120.000	1.3380		.3720	-.0370	-.2990	-.3620	-.4180	-.0770	.0040	.0710	-.0870	-.0700	-.0690	.0190	-.1910
135.000	1.3380							-.0750		.1100		-.1340		.0190	
150.000	1.3380		.3890	-.0240	-.2960	-.3610	-.4170	-.0770	.0180	.2320	-.0890	-.2430	-.1480	.0060	-.1910
165.000	1.3380			-.0140	-.2880	-.3570	-.4040	-.1140	.0110	.2280	-.1750		-.3060		-.1810
180.000	1.3380	1.1190	.4380	.0100	-.2780	-.3430	-.4060	-.1010	-.0050	.2800	-.1610	-.1490	-.1980	-.1940	-.0890
270.000	1.3380	1.3850													

X/LT	.7449	.8526	.9290

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 OEA + S3 > T9 EXTERNAL TANK (RBNT1D)

MACH (4) = 1.247 BETAT (8) = 8.220

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9299
PHI			
.000	-.0510	.0170	.0030
30.000	.0120	-.0030	-.0330
60.000	.1020	-.0030	-.0330
90.000			-.0980
120.000	.0890	.0530	-.0980
135.000	.0870	.0110	-.1200
150.000	.0850	-.1450	-.1580
165.000		-.2200	-.1580
180.000	-.0350		

DATE 26 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA ◆ S9 ◆ T9 EXTERNAL TANK (RBMT11) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0900 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .900
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .999 BETAT (1) = -8.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	.9580	1.0330	.4470	.0000	-.2320	-.2440	-.1720	-.0830	-.0390	-.0450	-.0410	-.0450	-.0470	-.0450	-.0180
30.000	.9580		.5780	.0990	-.1400	-.1530	-.0870	.0090	.0270	-.0200	-.0090	.0070	.0090	.0140	-.0140
60.000	.9560		.5800	.1160	-.0990	-.1010	-.0080	.0950	.1360	-.0790	-.0070	.0270	.0350	.0400	.0450
90.000	.9580	1.0210	.4570	.0130	-.1660	-.1470	-.0350	.0660	.0990	-1.1530	-.3060	-.2060	-.1210	-.0770	-.0050
120.000	.9580		.2620	-.1550	-.3200	-.2910	-.2060	-.1450	-.1920	-.2540	-.0620	-.0340	-.0310	-.0310	-.0040
135.000	.9580							-.1750		-.1050		-.0170		-.0170	
150.000	.9580		.0970	-.2880	-.4010	-.3620	-.2390	-.1640	-.0700	.0080	-.0060	-.0220	-.0370	-.0290	.0230
165.000	.9580			-.3380	-.4120	-.3640	-.2390	-.1360	-.0060	.0810	-.0110		-.1020		-.0330
180.000	.9580	.8390	.6050	-.3660	-.3980	-.3400	-.2200	-.1000	.0510	.0800	-.0480	-.1510	-.1730	-.1680	-.1280
270.000	.9580	.6520													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0610	-.0840	-.3370
30.000	.0130	-.0290	-.3650
60.000	.0470	-.0110	-.3780
90.000			-.5300
120.000	.1300	.0920	-.3920
135.000	.1300	.1100	-.4150
150.000	.1500	.1220	-.4400
165.000		.1020	-.4210
180.000	-.0320		

MACH (1) = .997 BETAT (2) = -8.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	.9770	1.0540	.4770	.0290	-.2070	-.2240	-.1490	-.0580	-.0130	-.0180	-.0020	-.0220	-.0270	-.0230	-.0020
30.000	.9770		.5800	.0870	-.1470	-.1550	-.0850	.0090	.0400	-.0060	-.0070	.0120	.0140	.0180	-.0130
60.000	.9770		.5230	.0670	-.1320	-.1290	-.0320	.0810	.1390	-.0820	-.0060	.0140	.0190	.0290	.0270
90.000	.9770	.9930	.3980	-.0390	-.1990	-.1710	-.0580	.0590	.1020	-1.2120	-.3790	-.2380	-.1520	-.1030	-.0300

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT11)

MACH (1) = .597 BETAT (2) = -6.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	.9770			-.3240	-.3810	-.3450	-.2140	-.1070	.0240	.0890	-.0100		-.0700		-.0130
180.000	.9770	.6735	.0220	-.3440	-.3760	-.3250	-.1970	-.0780	.0570	.0920	-.0120	-.1040	-.1170	-.1140	-.0890
270.000	.9770	.7300													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0400	-.0380	-.3170
30.000	.0090	-.0220	-.3420
60.000	.0340	-.0190	-.3650
90.000			-.3140
120.000	.1070	.0660	-.3790
135.000	.1170	.0690	-.4080
150.000	.1420	.0790	-.4270
165.000		.0440	-.3650
180.000	.0280		

MACH (1) = .597 BETAT (3) = -4.010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0020	1.0780	.4970	.0340	-.2040	-.2130	-.1360	-.0450	-.0010	-.0080	-.0040	-.0200	-.0090	-.0080	.0180
30.000	1.0020		.5330	.0610	-.1730	-.1800	-.0970	.0000	.0360	-.0030	-.0040	.0030	.0090	.0140	-.0080
60.000	1.0020		.4730	.0160	-.1770	-.1650	-.0560	.0650	.1320	-.0890	-.0260	.0020	.0090	.0190	.0170
90.000	1.0020	.9725	.3440	-.0940	-.2420	-.1990	-.0700	.0500	.1020	-1.2420	-.4180	-.2740	-.1840	-.1330	-.0340
120.000	1.0020		.1910	-.2100	-.3350	-.3000	-.1970	-.1250	-.1600	-.3000	-.0860	-.0570	-.0590	-.0380	-.0180
135.000	1.0020							-.1340		-.0970		-.0370		-.0350	
150.000	1.0020		.0870	-.2910	-.3810	-.3350	-.2130	-.1160	-.0200	.0140	-.0220	-.0290	-.0490	-.0330	.0270
165.000	1.0020			-.3220	-.3810	-.3280	-.1980	-.0900	.0380	.0950	-.0190		-.0520		.0180
180.000	1.0020	.6970	.0350	-.3370	-.3720	-.3140	-.1840	-.0650	.0680	.1030	-.0180	-.0630	-.0750	-.0700	-.0170
270.000	1.0020	.7940													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0150	-.0480	-.2860
30.000	.0150	-.0270	-.3160
60.000	.0260	-.0350	-.3670
90.000			-.4710
120.000	.0710	.0280	-.3530
135.000	.1130	.0390	-.3930
150.000	.1220	.0410	-.3960

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT11)

MACH (1) = .597 BETAT (3) = -4.010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.0090	-.3190
180.000	.0630		

MACH (1) = .599 BETAT (4) = -2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0130	1.0900	.5080	.0440	-.1950	-.2010	-.1240	-.0340	.0120	.0060	.0030	.0000	-.0020	.0010	.0320
30.000	1.0130		.5090	.0320	-.1920	-.1880	-.1090	-.0090	.0370	.0040	.0020	.0000	.0020	.0100	-.0120
60.000	1.0130		.4130	-.0400	-.2050	-.1930	-.0730	.0500	.1300	-.0840	-.0420	-.0010	-.0040	.0050	.0130
90.000	1.0130	.9580	.2850	-.1460	-.2630	-.2200	-.0820	.0440	.1060	-1.2660	-.4480	-.3040	-.2130	-.1630	-.0790
120.000	1.0130		.1540	-.2380	-.3380	-.2940	-.1880	-.1090	-.1350	-.2880	-.1080	-.0640	-.0710	-.0380	.0080
135.000	1.0130							-.1080		-.0910		-.0500		-.0390	
150.000	1.0130		.0760	-.2980	-.3610	-.3170	-.1940	-.0910	.0010	.0140	-.0280	-.0340	-.0490	-.0380	.0280
165.000	1.0130			-.3160	-.3620	-.3130	-.1790	-.0700	.0560	.0930	-.0250		-.0420		.0290
180.000	1.0130	.7120	.0510	-.3280	-.3520	-.3000	-.1760	-.0530	.0780	.0960	-.0240	-.0400	-.0500	-.0370	.0200
270.000	1.0130	.8550													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0030	-.0280	-.2820
30.000	-.0020	-.0140	-.2560
60.000	.0280	-.0180	-.2330
90.000			-.2710
120.000	.0770	.0290	-.3420
135.000	.0780	.0290	-.3320
150.000	.1190	.0040	-.3600
165.000		-.0310	-.2930
180.000	.1000		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 CRA + S3 + T9 EXTERNAL TANK (RBMT11)

MACH (1) = .600 BETAT (5) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0190	1.0880	.5050	.0410	-.2010	-.1990	-.1250	-.0360	.0140	.0070	.0180	.0000	.0040	.0020	.0360
30.000	1.0190		.4590	-.0060	-.2210	-.2120	-.1270	-.0210	.0260	-.0020	.0150	-.0010	-.0060	-.0040	-.0240
60.000	1.0190		.3470	-.1020	-.2430	-.2150	-.0990	.0290	.1290	-.0930	-.0510	-.0050	-.0140	-.0090	.0030
90.000	1.0190	.8930	.2240	-.2000	-.2850	-.2330	-.0950	.0480	.1150	-1.2840	-.4760	-.3270	-.2400	-.1960	-.0970
120.000	1.0190		.1150	-.2730	-.3400	-.2910	-.1770	-.0830	-.1160	-.2810	-.1030	-.0760	-.0880	-.0450	.0080
135.000	1.0190							-.0880		-.0880		-.0650		-.0490	
150.000	1.0190		.0690	-.3080	-.3590	-.3030	-.1820	-.0740	.0130	.0080	-.0440	-.0450	-.0580	-.0460	.0160
165.000	1.0190			-.3210	-.3590	-.3020	-.1730	-.0570	.0610	.0880	-.0440		-.0510		.0230
180.000	1.0190	.7190	.0530	-.3350	-.3580	-.2990	-.1750	-.0530	.0780	.1280	-.0410	-.0330	-.0490	-.0260	.0300
270.000	1.0190	.9010													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0030	-.0320	-.2710
30.000	-.0020	-.0230	-.2540
60.000	.0250	-.0270	-.2940
90.000			-.2800
120.000	.0710	.0020	-.2640
135.000	.0700	-.0070	-.3210
150.000	.0930	-.0400	-.3280
165.000		-.1280	-.2300
180.000	.1090		

MACH (1) = .598 BETAT (6) = 2.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0150	1.0810	.5010	.0370	-.2040	-.2110	-.1370	-.0380	.0070	.0000	.0020	-.0050	.0000	-.0040	.0350
30.000	1.0150		.4130	-.0420	-.2460	-.2380	-.1490	-.0400	.0110	-.0090	.0010	-.0080	-.0230	-.0150	-.0340
60.000	1.0150		.2840	-.1510	-.2810	-.2460	-.1210	.0130	.1210	-.0960	-.0670	-.0280	-.0250	-.0140	.0010
90.000	1.0150	.8440	.1710	-.2430	-.3060	-.2500	-.0930	.0450	.1260	-1.3310	-.4650	-.3500	-.2630	-.2110	-.1230
120.000	1.0150		.0810	-.2940	-.3460	-.2910	-.1630	-.0680	-.0890	-.2730	-.1020	-.0860	-.0980	-.0630	-.0100
135.000	1.0150							-.0700		-.0890		-.0770		-.0560	
150.000	1.0150		.0540	-.3130	-.3520	-.3000	-.1700	-.0620	.0250	-.0020	-.0570	-.0620	-.0700	-.0550	-.0050
165.000	1.0150			-.3290	-.3590	-.3020	-.1700	-.0540	.0590	.0710	-.0530		-.0690		.0030
180.000	1.0150	.7240	.0550	-.3300	-.3590	-.3060	-.1760	-.0570	.0710	.1210	-.0500	-.0420	-.0630	-.0410	.0140
270.000	1.0150	.9310													

X/LT	.7449	.8528	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT11)

MACH (1) = .998 BETAT (6) = 2.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8326	.9290
PHI			
.000	-.0070	-.0380	-.3080
30.000	-.0080	-.0370	-.2680
60.000	.0210	-.0280	-.2090
90.000			-.2480
120.000	.0390	-.0180	-.2440
135.000	.0390	-.0350	-.2970
150.000	.0680	-.0880	-.2960
165.000		-.2140	-.1950
180.000	.0980		

MACH (1) = .997 BETAT (7) = 3.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0130	1.0720	.4890	.0410	-.2090	-.2130	-.1520	-.0360	.0050	-.0020	.0000	-.0070	-.0070	-.0040	.0210
30.000	1.0130		.3930	-.0890	-.2600	-.2520	-.1650	-.0500	.0050	-.0120	-.0010	-.0400	-.0310	-.0240	-.0590
60.000	1.0130		.2550	-.1730	-.2890	-.2620	-.1230	.0080	.1240	-.0960	-.0660	-.0420	-.0310	-.0230	-.0100
90.000	1.0130	.4210	.1450	-.2600	-.3080	-.2550	-.0980	.0460	.1330	-1.3500	-.4650	-.3480	-.2630	-.2160	-.1260
120.000	1.0130		.0680	-.3020	-.3410	-.2890	-.1610	-.0590	-.0770	-.2650	-.1060	-.0880	-.1010	-.0750	-.0180
135.000	1.0130							-.0640		-.0910		-.0810		-.0640	
150.000	1.0130		.0460	-.3130	-.3460	-.3010	-.1680	-.0590	.0280	-.0090	-.0660	-.0690	-.0800	-.0880	-.0110
165.000	1.0130			-.3210	-.3490	-.3080	-.1650	-.0560	.0640	.0570	-.0610		-.0770		-.0160
180.000	1.0130	.7170	.0560	-.3250	-.3560	-.3120	-.1810	-.0600	.0690	.0870	-.0610	-.0610	-.0710	-.0550	.0020
270.000	1.0130	.9690													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0070	-.0400	-.2880
30.000	-.0080	-.0420	-.2670
60.000	.0210	-.0370	-.2120
90.000			-.2300
120.000	.0490	-.0220	-.2720
135.000	.0480	-.0440	-.2880
150.000	.0540	-.1010	-.2660
165.000		-.2230	-.1750
180.000	.0850		

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CBA + S5 + T9 EXTERNAL TANK (RBNT11)

MACH (1) = .800 BETAT (8) = 4.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0110	1.0650	.4790	.0240	-.2090	-.2200	-.1480	-.0420	-.0020	-.0080	.0090	-.0080	-.0080	-.0100	.0220
30.000	1.0110		.3630	-.0850	-.2710	-.2670	-.1690	-.0650	.0040	-.0290	.0070	-.0440	-.0360	-.0320	-.0810
60.000	1.0110		.2200	-.2020	-.3030	-.2670	-.1350	.0030	.1200	-.0950	-.0680	-.0420	-.0260	-.0250	-.0050
90.000	1.0110	.7910	.1150	-.2830	-.3160	-.2520	-.0990	.0490	.1350	-1.3530	-.4760	-.3590	-.2690	-.2150	-.1170
120.000	1.0110		.0420	-.3140	-.3440	-.2770	-.1510	-.0500	-.0670	-.2490	-.1020	-.0870	-.1040	-.0750	-.0270
135.000	1.0110							-.0540		-.0850		-.0780		-.0590	
150.000	1.0110		.0290	-.3250	-.3570	-.2920	-.1610	-.0530	.0250	-.0090	-.0760	-.0750	-.0690	-.0620	-.0170
165.000	1.0110			-.3340	-.3690	-.3020	-.1650	-.0570	.0560	.0560	-.0770		-.0960		-.0290
180.000	1.0110	.7210	.0410	-.3320	-.3700	-.3140	-.1850	-.0680	.0620	.0970	-.0730	-.0630	-.0830	-.0680	-.0200
270.000	1.0110	.9890													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0170	-.0390	-.3110
30.000	-.0180	-.0300	-.2620
60.000	.0190	-.0340	-.1980
90.000			-.2590
120.000	.0390	-.0250	-.2610
135.000	.0420	-.0430	-.2680
150.000	.0430	-.1090	-.2180
165.000		-.2430	-.1480
180.000	.0730		

MACH (1) = .801 BETAT (9) = 6.1..

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	.9820	1.0390	.4720	.0240	-.2200	-.2260	-.1570	-.0550	-.0150	-.0150	-.0180	-.0160	-.0200	-.0170	.0080
30.000	.9820		.3160	-.1280	-.3010	-.2920	-.1910	-.0830	-.0140	-.0330	-.0210	-.0600	-.0520	-.0410	-.0760
60.000	.9820		.1540	-.2610	-.3350	-.2880	-.1460	-.0090	.1290	-.0850	-.0620	-.0600	-.0290	-.0200	-.0070
90.000	.9820	.7200	.0570	-.3250	-.3310	-.2640	-.0890	.0570	.1470	-1.3970	-.4740	-.3750	-.2760	-.2170	-.1040
120.000	.9820		.0020	-.3450	-.3370	-.2710	-.1330	-.0300	-.0430	-.2370	-.1050	-.0910	-.1010	-.0810	-.0220
135.000	.9820							-.0400		-.0850		-.0820		-.0670	
150.000	.9820		.0000	-.3490	-.3510	-.2910	-.1470	-.0460	.0380	-.0180	-.0880	-.0910	-.1020	-.0880	-.0350
165.000	.9820			-.3530	-.3660	-.3010	-.1690	-.0520	.0540	.0330	-.1110		-.1290		-.0730
180.000	.9820	.6880	.0250	-.3480	-.3790	-.3190	-.1950	-.0730	.0550	.0980	-.1080	-.1000	-.1240	-.1120	-.0850
270.000	.9820	1.0030													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7FT IA9 CBA + S3 + T9 EXTERNAL TANK (RBNT11)

MACH (1) = .601 BETAT (9) = 8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0350	-.0810	-.3130
30.000	-.0320	-.0810	-.2590
60.000	.0180	-.0300	-.1980
90.000			-.3130
120.000	.0370	-.0260	-.2660
135.000	.0350	-.0480	-.2240
150.000	.0250	-.1220	-.1690
165.000		-.2640	-.1710
180.000	.0820		

MACH (1) = .800 BETAT (10) = 8.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	.9530	1.0080	.4420	-.0090	-.2420	-.2520	-.1750	-.0820	-.0460	-.0440	-.0490	-.0460	-.0550	-.0480	-.0190
30.000	.9530		.2490	-.1690	-.3490	-.3290	-.2270	-.1110	-.0410	-.0550	-.0500	-.0790	-.0750	-.0750	-.1090
60.000	.9530		.0920	-.3080	-.3750	-.3230	-.1690	-.0280	.1220	-.0820	-.0750	-.0450	-.0370	-.0180	-.0110
90.000	.9530	.6440	.0010	-.3640	-.3520	-.2630	-.0850	.0610	.1610	-1.3860	-.5180	-.4040	-.2980	-.2280	-.1060
120.000	.9530		-.0460	-.3700	-.3410	-.2610	-.1190	-.0150	-.0180	-.2250	-.1050	-.0970	-.1000	-.0890	-.0280
135.000	.9530							-.0260		-.0870		-.0940		-.0820	
150.000	.9530		-.0430	-.3730	-.3610	-.2920	-.1620	-.0460	.0250	-.0380	-.1210	-.1200	-.1260	-.1050	-.0420
165.000	.9530			-.3810	-.3860	-.3240	-.1620	-.0720	.0360	-.0110	-.1560		-.1900		-.1230
180.000	.9530	.6880	-.0070	-.3810	-.4030	-.3520	-.2160	-.1070	.0310	.0620	-.1560	-.1670	-.1830	-.1750	-.1280
270.000	.9530	1.0270													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0310	-.0930	-.3380
30.000	-.0330	-.0920	-.2790
60.000	.0130	-.0510	-.2110
90.000			-.3450
120.000	.0480	-.0410	-.2560
135.000	.0170	-.0540	-.1900
150.000	.0150	-.1700	-.1900
165.000		-.2680	-.1890
180.000	-.0340		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT11)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (2) = .900 BETAT (1) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0980	1.1540	.5580	.0590	-.3200	-.3920	-.2440	-.0480	.0130	-.0530	-.0940	-.0700	-.0480	-.0430	-.0080
30.000	1.0980		.6770	.1550	-.2160	-.2580	-.1150	.0480	.0900	-.0830	-.0740	-.0080	.0130	.0170	-.0050
60.000	1.0980		.6840	.1760	-.1870	-.1960	-.0040	.1670	.2640	-.1950	.0110	.0230	.0440	.0500	.0360
90.000	1.0980	1.1510	.5700	.0690	-.2750	-.2320	.0020	.1730	.2730	-1.0110	-.2700	-.1380	.0100	.0140	.0480
120.000	1.0980		.3890	-.0930	-.4320	-.3880	-.1870	-.0610	-.0970	-.3660	-.2700	-.0870	.0130	.0240	.0470
135.000	1.0980							-.0990		-.1200		-.0630		-.0240	
150.000	1.0980		.2320	-.2420	-.5750	-.6140	-.1890	-.0840	-.0080	.0680	-.0830	-.0260	-.0380	-.0800	.0400
165.000	1.0980			-.3080	-.6330	-.6680	-.1420	-.0400	.0870	.1840	-.1210		-.1120		-.0160
180.000	1.0980	.8210	.1300	-.3520	-.6590	-.5640	-.1020	.0090	.1490	.2160	-.1680	-.1390	-.1900	-.2230	-.1070
270.000	1.0980	.8130													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0310	-.0450	-.2130
30.000	.0320	.0260	-.1660
60.000	.0980	.0510	-.1920
90.000			-.3300
120.000	.2110	.2260	-.1220
135.000	.2300	.2640	-.1220
150.000	.2510	.2910	-.1570
165.000		.2530	-.1660
180.000	.0570		

MACH (2) = .903 BETAT (2) = -8.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1054	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1210	1.1820	.5860	.0730	-.3010	-.3940	-.1780	-.0080	.0460	-.0310	-.0720	-.0390	-.0230	-.0180	.0180
30.000	1.1210		.6810	.1370	-.2420	-.3050	-.1050	.0600	.1090	-.0600	-.0710	-.0090	.0130	.0250	.0070
60.000	1.1210		.6290	.1170	-.2560	-.2600	-.0160	.1570	.2680	-.1770	.0000	-.0020	.0320	.0380	.0430
90.000	1.1210	1.1290	.5130	.0080	-.3430	-.2780	-.0040	.1680	.2770	-1.0320	-.3030	-.1840	-.0190	-.0100	.0280
120.000	1.1210		.3490	-.1370	-.4810	-.4340	-.1510	-.0380	-.0690	-.3550	-.2970	-.1170	-.0020	-.0150	.0350
135.000	1.1210							-.0640		-.1250		-.0720		-.0490	
150.000	1.1210		.2140	-.2590	-.6060	-.6360	-.1440	-.0460	.0310	.0660	-.0980	-.0290	-.0350	-.0840	.0430
165.000	1.1210			-.3110	-.6340	-.6420	-.1070	-.0080	.1110	.1810	-.1240		-.0820		.0120
180.000	1.1210	.8370	.1450	-.3500	-.6520	-.4400	-.0760	.0310	.1640	.2100	-.1250	-.0900	-.1370	-.1580	-.0360
270.000	1.1210	.8790													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT11)

MACH (2) = .903 BETAT (2) = -6.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0240	-.0200	-.1840
30.000	.0930	.0330	-.1540
60.000	.0910	.0390	-.1950
90.000			-.3160
120.000	.1870	.1920	-.1670
135.000	.2050	.2120	-.1650
150.000	.2090	.2170	-.2040
165.000		.1840	-.2100
180.000	.0910		

MACH (2) = .903 BETAT (3) = +4.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1096	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1430	1.2010	.6000	.0860	-.3010	-.3810	-.1360	.0180	.0700	-.0140	-.0620	-.0180	.0000	.0010	.0390
30.000	1.1430		.6370	.1100	-.2690	-.3350	-.0940	.0670	.1220	-.0410	-.0610	.0030	.0190	.0250	.0090
60.000	1.1430		.5800	.0680	-.2990	-.3570	-.0260	.1510	.2740	-.1620	-.0010	.0050	.0190	.0260	.0360
90.000	1.1430	1.1100	.4610	-.0450	-.3950	-.3500	.0000	.1710	.2870	-1.0630	-.3290	-.1950	-.0740	-.0800	-.0280
120.000	1.1430		.3170	-.1720	-.5230	-.4840	-.1140	-.0090	-.0330	-.4960	-.3090	-.0710	.0020	-.0400	.0110
135.000	1.1430							-.0290		-.1730		-.0480		-.0630	
150.000	1.1430		.2110	-.2660	-.5920	-.6580	-.1030	-.0110	.0640	.0440	-.1100	-.0310	-.0410	-.0870	.0480
165.000	1.1430			-.3080	-.6320	-.5290	-.0860	.0160	.1310	.1710	-.1010		-.0750		.0430
180.000	1.1430	.8600	.1390	-.3340	-.6370	-.3340	-.0700	.0420	.1730	.2270	-.1070	-.0550	-.1010	-.1260	.0120
270.000	1.1430	.9400													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0010	.0010	-.1630
30.000	.0990	.0330	-.1900
60.000	.0930	.0360	-.1960
90.000			-.3120
120.000	.1430	.1340	-.2030
135.000	.1840	.1930	-.1920
150.000	.1850	.1520	-.1950
165.000		.0780	-.1930
180.000	.1380		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT11)

AMES 11-707 IA9 CEA + 33 + T9 EXTERNAL TANK

MACH (2) = .901 BETAT (4) = -2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1520	1.2090	.6080	.0900	-.2940	-.3870	-.1110	.0280	.0790	-.0080	-.0570	-.0070	.0030	.0090	.0460
30.000	1.1520		.6050	.0790	-.3000	-.3860	-.0960	.0610	.1230	-.0300	-.0560	-.0040	.0060	.0190	-.0060
60.000	1.1520		.5220	.0080	-.3520	-.4210	-.0370	.1410	.2730	-.1500	-.0190	-.0040	.0070	.0130	.0240
90.000	1.1520	1.0750	.4040	-.1090	-.4700	-.4180	.0020	.1730	.2910	-1.0800	-.3450	-.2130	-.0970	-.0990	-.0420
120.000	1.1520		.2760	-.2140	-.5620	-.4360	-.0820	.0170	.0000	-.4720	-.3140	-.0880	-.0250	-.0560	.0040
135.000	1.1520							.0020		-.1540		-.0640		-.0710	
150.000	1.1520		.2000	-.2810	-.6240	-.5040	-.0780	.0150	.0950	.0370	-.1120	-.0440	-.0540	-.0900	.0510
165.000	1.1520			-.3020	-.6330	-.3980	-.0700	.0320	.1500	.1630	-.0860		-.0670		.0590
180.000	1.1520	.8710	.1700	-.3250	-.6350	-.3200	-.0630	.0440	.1780	.2250	-.0860	-.0420	-.0810	-.0960	.0480
270.000	1.1520	.9940													

X/LT	.7449	.8526	.9290
PHI			
.000	.0190	.0130	-.1540
30.000	.0490	.0270	-.1520
60.000	.0900	.0210	-.2110
90.000			-.3130
120.000	.1270	.1020	-.2450
135.000	.1480	.1020	-.2150
150.000	.1680	.0860	-.2160
165.000		-.0320	-.2160
180.000	.1840		

MACH (2) = .901 BETAT (5) = 2.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1520	1.2040	.6090	.0900	-.2910	-.3880	-.1190	.0250	.0800	-.0040	-.0510	-.0070	.0060	.0160	.0470
30.000	1.1520		.5290	.0090	-.3750	-.4540	-.1110	.0370	.1170	-.0130	-.0510	-.0260	-.0150	-.0040	-.0330
60.000	1.1520		.4090	-.1090	-.4740	-.5450	-.0430	.1240	.2780	-.1200	-.0500	-.0260	-.0040	.0020	.0120
90.000	1.1520	.9690	.2920	-.2150	-.5530	-.4780	.0160	.1810	.3150	-1.1010	-.3850	-.2550	-.1210	-.1300	-.0600
120.000	1.1520		.1970	-.2870	-.6150	-.2770	-.0320	.0610	.0650	-.4080	-.3140	-.1020	-.0500	-.0810	.0020
135.000	1.1520							.0530		-.1020		-.0800		-.0840	
150.000	1.1520		.1670	-.3140	-.6320	-.2780	-.0410	.0500	.1430	.0440	-.1330	-.0690	-.0810	-.1120	.0360
165.000	1.1520			-.3190	-.6410	-.2820	-.0470	.0460	.1730	.1540	-.0980		-.0870		.0370
180.000	1.1520	.8740	.1680	-.3250	-.6390	-.2940	-.0580	.0430	.1780	.2220	-.0980	-.0450	-.0760	-.0920	.0520
270.000	1.1520	1.0820													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT11)

MACH (2) = .901 BETAT (5) = 2.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	.0270	.0110	-.1500
30.000	.0340	.0050	-.1790
60.000	.0750	.0040	-.2340
90.000			-.3110
120.000	.0930	.0420	-.2400
135.000	.1100	.0270	-.2390
150.000	.1200	-.0280	-.2390
165.000		-.1840	-.1760
180.000	.1340		

MACH (2) = .900 BETAT (6) = 4.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1440	1.1890	.5930	.0820	-.2940	-.3950	-.1400	.0150	.0710	-.0170	-.0680	-.0280	-.0040	-.0080	.0380
30.000	1.1440		.4850	-.0300	-.3930	-.4920	-.1110	.0210	.1090	-.0160	-.0670	-.0520	-.0210	-.0310	-.0530
60.000	1.1440		.3440	-.1600	-.5180	-.5910	-.0450	.1180	.2830	-.1100	-.0760	-.0320	-.0080	-.0090	.0190
90.000	1.1440	.9360	.2390	-.2650	-.5970	-.3320	.0210	.1860	.3270	-1.1010	-.4420	-.2430	-.1380	-.1490	-.0710
120.000	1.1440		.1600	-.3170	-.6440	-.2430	-.0230	.0810	.0970	-.3670	-.3170	-.0930	-.0620	-.0770	-.0010
135.000	1.1440							.0640		-.0800		-.0850		-.0910	
150.000	1.1440		.1450	-.3330	-.6530	-.2380	-.0450	.0590	.1600	.0490	-.1970	-.0810	-.1120	-.1330	.0210
165.000	1.1440			-.3360	-.6380	-.2700	-.0640	.0510	.1750	.1520	-.1880		-.1300		-.0010
180.000	1.1440	.8710	.1630	-.3330	-.6400	-.3830	-.0860	.0370	.1680	.2220	-.1880	-.0670	-.1140	-.1190	.0070
270.000	1.1440	1.1190													

X/LT	.7449	.8526	.9290
PHI			
.000	.0080	-.0020	-.1620
30.000	.0050	-.0110	-.1980
60.000	.0620	-.0050	-.2460
90.000			-.3190
120.000	.0780	.0180	-.2610
135.000	.0910	.0040	-.2690
150.000	.1010	-.0620	-.2290
165.000		-.1940	-.1530
180.000	.1180		

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK (RBMT11)

MACH (2) = .902 BETAT (7) = 6.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1200	1.1730	.3870	.0790	-.3100	-.3910	-.2420	-.0030	.0470	-.0280	-.0500	-.0370	-.0270	-.0140	.0130
30.000	1.1200		.4390	-.0690	-.4370	-.5120	-.1480	-.0040	.0860	-.0200	-.1190	-.0690	-.0480	-.0430	-.0790
60.000	1.1200		.2830	-.2260	-.5650	-.6490	-.0550	.1080	.2820	-.0980	-.0990	-.0330	-.0190	-.0120	.0090
90.000	1.1200	.8740	.1790	-.3160	-.6390	-.2740	.0170	.1670	.3330	-1.0930	-.4790	-.2960	-.1630	-.1920	-.1020
120.000	1.1200		.1170	-.3530	-.6630	-.2000	-.0100	.0690	.1190	-.3470	-.3010	-.0910	-.0760	-.0980	-.0080
135.000	1.1200							.0590		-.0710		-.0880		-.1070	
150.000	1.1200		.1100	-.3540	-.6730	-.2230	-.0360	.0410	.1670	.0420	-.2350	-.0970	-.1360	-.1580	.0100
165.000	1.1200			-.3550	-.6620	-.2640	-.0430	.0360	.1770	.1360	-.2500		-.1660		-.0470
180.000	1.1200	.8420	.1420	-.3500	-.6440	-.4140	-.0790	.0180	.1600	.2120	-.2580	-.1070	-.1440	-.1780	-.0470
270.000	1.1200	1.1380													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0050	-.0320	-.1850
30.000	-.0060	-.0420	-.2240
60.000	.0610	-.0190	-.2520
90.000			-.3160
120.000	.0610	-.0020	-.2560
135.000	.0840	-.0290	-.2350
150.000	.0720	-.1290	-.1790
165.000		-.2650	-.2060
180.000	.0750		

MACH (2) = .900 BETAT (8) = 8.280

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0960	1.1400	.5610	.0670	-.3130	-.3880	-.2510	-.0400	.0110	-.0480	-.0930	-.0670	-.0510	-.0440	-.0100
30.000	1.0960		.3800	-.1190	-.4810	-.5480	-.2950	-.0320	.0560	-.0280	-.2050	-.1000	-.0810	-.0720	-.1090
60.000	1.0960		.2170	-.2770	-.6150	-.6620	-.0670	.0920	.2870	-.0840	-.1260	-.0530	-.0340	-.0270	-.0030
90.000	1.0960	.8040	.1260	-.3630	-.6670	-.1950	.0070	.1770	.3490	-1.0690	-.6060	-.2940	-.2250	-.2580	-.1600
120.000	1.0960		.0710	-.3880	-.6610	-.1580	-.0140	.0820	.1500	-.3090	-.2830	-.0670	-.0880	-.1000	-.0300
135.000	1.0960							.0640		-.0540		-.0710		-.1150	
150.000	1.0960		.0790	-.3770	-.6770	-.1900	-.0590	.0550	.1670	.0410	-.3890	-.0930	-.1510	-.1640	-.0030
165.000	1.0960			-.3790	-.6770	-.2540	-.0690	.0260	.1670	.1240	-.4070		-.2150		-.0990
180.000	1.0960	.8200	.1230	-.3610	-.6700	-.4460	-.1120	-.0070	.1410	.2040	-.4070	-.1470	-.1950	-.2250	-.1170
270.000	1.0960	1.1560													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT11)

MACH (2) = .900 BETAT (8) = 8.280

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0310	-.0490	-.2110
30.000	-.0300	-.0560	-.2470
60.000	.0560	-.0280	-.2670
90.000			-.3210
120.000	.0450	-.0280	-.2570
135.000	.0630	-.0750	-.2240
150.000	.0700	-.2430	-.2240
165.000		-.3060	-.2200
180.000	.0430		

MACH (3) = 1.103 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2356	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2280	1.2820	.7230	.2570	-.1140	-.2040	-.3070	-.2430	.1200	.1270	-.0170	-.0610	-.0710	-.0720	-.0420
30.000	1.2280		.6300	.3390	-.0380	-.1300	-.2400	-.1630	.2290	.1210	-.1210	.0430	-.0060	.0160	-.0410
60.000	1.2280		.6310	.3540	-.0330	-.1180	-.2350	.1270	.4260	.0810	-.2970	.0600	.0310	.0660	.0550
90.000	1.2280	1.2750	.7300	.2540	-.1140	-.2020	-.3060	.2330	.4170	-.5610	-.3510	-.1670	.0000	.0610	.0340
120.000	1.2280		.5680	.1120	-.2430	-.3120	-.4080	-.0680	-.0090	-.3530	-.3420	-.1520	.0730	.1190	-.0090
135.000	1.2280							-.2060		-.1190		-.1020		.1150	
150.000	1.2280		.4230	-.0090	-.3480	-.4140	-.4930	-.2190	.0180	.1320	-.0590	-.1020	.0550	.0390	-.0370
165.000	1.2280			-.0700	-.3830	-.4480	-.5160	-.1140	.0930	.2950	-.0970		-.0640		-.1050
180.000	1.2280	.9800	.3350	-.1030	-.3990	-.4620	-.3960	-.1070	.0990	.3030	-.0980	-.2670	-.0060	-.1250	-.2560
270.000	1.2280	.9730													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0230	.0520	-.0260
30.000	.0660	.1460	.0420
60.000	.1160	.1830	.0210
90.000			-.1500
120.000	.2070	.3320	.0670
135.000	.2310	.3720	.1140
150.000	.2430	.4010	.1000
165.000		.4050	.1190
180.000	.0730		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RUNT11)

MACH (3) = 1.098 BETAT (2) = -6.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2490	1.3030	.7450	.2720	-.1060	-.1950	-.2990	-.2330	.1890	.1770	.0520	-.0760	-.0460	-.0440	.0020
30.000	1.2490		.8130	.3230	-.0600	-.1480	-.2560	-.1600	.2580	.1650	-.0900	.0270	-.0120	.0180	-.0190
60.000	1.2490		.7860	.3040	-.0730	-.1620	-.2700	-.1090	.4310	.1020	-.2770	.0400	.0050	.0520	.0490
90.000	1.2490	1.2540	.6770	.2040	-.1600	-.2410	-.3470	.1370	.4200	-.5680	-.3470	-.2080	-.0150	.0630	.0230
120.000	1.2490		.5280	.0780	-.2720	-.3450	-.4300	-.1170	.0550	-.5280	-.3550	-.1550	.0740	.0940	-.0220
135.000	1.2490							-.1670		-.0970		-.0870		.0770	
150.000	1.2490		.4110	-.0260	-.3540	-.4230	-.5000	-.0930	.0250	.1210	-.0930	-.0080	.0930	.0210	-.0450
165.000	1.2490			-.0710	-.3820	-.4440	-.2530	-.0780	.0490	.2650	-.1440		.0670		-.0930
180.000	1.2490	.9910	.3440	-.1060	-.3960	-.4540	-.1070	-.0860	.0620	.2520	-.1420	-.1910	.0260	-.0870	-.1880
270.000	1.2490	1.0310													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0070	.0280	.0140
30.000	.0630	.1020	.0490
60.000	.1230	.1390	.0020
90.000			-.1710
120.000	.1710	.2090	.0520
135.000	.1910	.3240	.0830
150.000	.2110	.3450	.0620
165.000		.3220	.0870
180.000	.0930		

MACH (3) = 1.102 BETAT (3) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2670	1.3200	.7560	.2770	-.1010	-.1900	-.2970	-.2300	.2420	.2080	.0310	-.0990	-.0340	-.0360	.0800
30.000	1.2670		.7880	.2960	-.0880	-.1670	-.2790	-.2050	.2760	.1900	-.0610	.0030	-.0220	.0090	.0080
60.000	1.2670		.7370	.2550	-.1170	-.2020	-.3070	-.2000	.4350	.1190	-.2620	.0150	-.0180	.0410	.0620
90.000	1.2670	1.2330	.6290	.1570	-.2030	-.2860	-.3820	.0790	.4360	-.5820	-.3350	-.2430	-.0160	.0600	.0020
120.000	1.2670		.4980	.0470	-.2980	-.3700	-.4530	-.0750	.0900	-.2940	-.3600	-.1400	.0690	.0820	-.0520
135.000	1.2670							-.0590		-.0780		-.0670		.0930	
150.000	1.2670		.4040	-.0370	-.3590	-.4290	-.1220	-.0760	.0280	.1130	-.1030	-.0360	.0740	.0140	-.0530
165.000	1.2670			-.0730	-.3610	-.4440	-.0740	-.0700	.0210	.2050	-.0500		.0500		-.0770
180.000	1.2670	1.0110	.3520	-.0980	-.3690	-.4470	-.0600	-.0570	.0310	.1890	-.0490	-.0440	.0400	-.0370	-.1250
270.000	1.2670	1.0850													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IASA

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT11)

MACH (3) = 1.102 BETAT (3) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	.0090	.0170	.0190
30.000	.0730	.0690	.0280
60.000	.1230	.0970	-.0180
90.000			-.1900
120.000	.1330	.2470	.0380
135.000	.1550	.2710	.0510
150.000	.1780	.2710	.0500
165.000		.1850	.0560
180.000	.1180		

MACH (3) = 1.101 BETAT (4) = -2.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	2874	.3412	.3990	.4489	.5027	.5585	.6372
PHI															
.000	1.2780	1.3290	.7650	.2830	-.0970	-.1870	-.2980	-.2310	.2440	.2260	.0430	-.1100	-.0190	-.0070	.0610
30.000	1.2780		.7610	.2760	-.1110	-.1940	-.3030	-.2310	.2740	.2090	-.0450	-.0280	-.0250	.0310	.0110
60.000	1.2780		.6870	.2060	-.1550	-.2440	-.3470	-.2730	.4180	.1370	-.2470	-.0140	-.0260	.0620	.0450
90.000	1.2780	1.2080	.5780	.1070	-.2440	-.3240	-.4180	.0260	.4410	-.5930	-.3440	-.2690	-.0070	.0470	-.0280
120.000	1.2780		.4630	.0170	-.3230	-.3940	-.4750	-.0600	.1140	-.2470	-.3510	-.1170	.0780	.0560	-.0600
135.000	1.2780							-.0680		-.0330		-.0320		.0360	
150.000	1.2780		.3950	-.0480	-.3690	-.4330	-.1430	-.0860	.0230	.1420	-.0770	.0140	.0710	.0070	-.0700
165.000	1.2780			-.0740	-.3800	-.4430	-.0610	-.0760	.0240	.1930	-.0050		.0600		-.0790
180.000	1.2780	1.0170	.3610	-.0900	-.3870	-.4460	-.0610	-.0630	.0320	.1940	-.0020	.0220	.0720	-.0040	-.0890
270.000	1.2780	1.1320													

X/LT	.7449	.8526	.9290
PHI			
.000	.0230	-.0020	.0290
30.000	.0700	.0280	.0210
60.000	.1200	.0550	-.0300
90.000			-.1940
120.000	.1010	.2060	-.0040
135.000	.1220	.2060	.0040
150.000	.1480	.1890	-.0130
165.000		.1000	-.0120
180.000	.1430		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 OEA • S3 • T9 EXTERNAL TANK (WBNT11)

MACH (3) = 1.101 BETAT (5) = 2.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2810	1.3230	.7600	.2770	-.1010	-.1930	-.3000	-.2340	.2550	.2230	.0380	-.1100	-.0200	-.0130	.0740
30.000	1.2810		.6890	.2100	-.1690	-.2460	-.3510	-.2830	.2500	.2230	-.0060	-.0880	-.0530	-.0280	-.0040
60.000	1.2810		.5770	.1040	-.2420	-.3250	-.4170	-.0750	.3080	.1840	-.1520	-.0610	-.0390	.0030	.0350
90.000	1.2810	1.1270	.4740	.0140	-.3170	-.3940	-.4790	-.0400	.4800	-.6110	-.3830	-.1750	.0170	.0040	-.0890
120.000	1.2810		.3910	-.0510	-.3680	-.4310	-.4970	-.0670	.1670	-.1660	-.3490	.0080	.0630	-.0140	-.1580
135.000	1.2810							-.0710		.0720		.0790		-.0210	
150.000	1.2810		.3620	-.0790	-.3860	-.4480	-.1190	-.0790	.0230	.1900	-.0890	.0320	.0570	-.0460	-.1340
165.000	1.2810			-.0890	-.3880	-.4410	-.0820	-.0690	.0250	.2060	-.0110		.0590		-.1280
180.000	1.2810	1.0250	.3630	-.0930	-.3870	-.4260	-.0530	-.0490	.0350	.2020	-.0090	.0350	.0690	-.0150	-.0990
270.000	1.2810	1.2140													

X/LT	.7449	.8526	.9290
PHI			
.000	.0170	-.0030	.0260
30.000	.0170	.0080	.0070
60.000	.0860	.0440	-.0490
90.000			-.1460
120.000	.0740	.1290	-.0470
135.000	.0870	.1010	-.0470
150.000	.1000	.0310	-.0770
165.000		-.1610	-.0930
180.000	.1360		

MACH (3) = 1.103 BETAT (6) = 4.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2730	1.3100	.7480	.2710	-.1050	-.1930	-.3000	-.2350	.2390	.2040	.0280	-.0970	-.0360	-.0390	.0830
30.000	1.2730		.6810	.1760	-.1950	-.2680	-.3690	-.3070	.2410	.2180	.0130	-.1200	-.0750	-.0990	-.0310
60.000	1.2730		.5260	.0610	-.2730	-.3540	-.4420	-.0360	.2490	.2030	-.1200	-.0820	-.0530	-.0300	.0240
90.000	1.2730	1.0810	.4280	-.0290	-.3450	-.4140	-.4970	-.0630	.5000	-.5990	-.4210	-.1230	.0170	-.0150	-.0780
120.000	1.2730		.3590	-.0800	-.3830	-.4410	-.2630	-.0620	.0930	-.1210	-.3040	.0430	.0440	-.0370	-.1780
135.000	1.2730							-.0700		.1190		.0480		-.0450	
150.000	1.2730		.3490	-.0940	-.3920	-.4500	-.1090	-.0770	.0130	.1680	-.0920	-.0090	.0390	-.0740	-.1620
165.000	1.2730			-.0980	-.3920	-.4500	-.0800	-.0690	.0210	.2010	-.0300		.0350		-.1580
180.000	1.2730	1.0210	.3600	-.0910	-.3920	-.4520	-.0640	-.0570	.0220	.1930	-.0280	-.0900	.0380	-.0400	-.1290
270.000	1.2730	1.2460													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IASA

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RSNT11)

MACH (3) = 1.103 BETAT (6) = 4.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	.0240	.0110	.0240
30.000	.0300	-.0090	.0070
60.000	.0660	.0310	-.0450
90.000			-.1190
120.000	.0700	.1010	-.0690
135.000	.0700	.0750	-.0890
150.000	.0950	-.0010	-.1230
165.000		-.1560	-.1330
180.000	.1130		

MACH (3) = 1.100 BETAT (7) = 6.230

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2520	1.2940	.7480	.2690	-.1060	-.1990	-.3030	-.2310	.1920	.1680	.0000	-.0720	-.0580	-.0550	.0020
30.000	1.2520		.6140	.1500	-.2220	-.2920	-.3960	-.3290	.1990	.2080	.0010	-.1470	-.1020	-.0680	-.0660
60.000	1.2520		.4750	.0160	-.3110	-.3910	-.4750	-.0280	.1690	.2200	-.0930	-.1190	-.0780	-.0550	-.0060
90.000	1.2520	1.0260	.3600	-.0670	-.3750	-.4460	-.3980	-.0920	.5130	-.5860	-.5570	-.1210	-.0130	-.0440	-.1080
120.000	1.2520		.3240	-.1030	-.4010	-.4610	-.1290	-.0800	.0520	-.0990	-.2810	.0160	.0150	- 0700	-.2160
135.000	1.2520							-.0830		.1290		-.0040		-.0740	
150.000	1.2520		.3170	-.1070	-.4060	-.4620	-.0950	-.0770	.0130	.1300	-.1080	-.0510	.0140	-.1050	-.1870
165.000	1.2520			-.1090	-.4020	-.4600	-.0700	-.0670	.0410	.1820	-.0460		-.0020		-.2220
180.000	1.2520	.9970	.3460	-.1020	-.4030	-.4600	-.0840	-.0710	.0420	.2220	-.0480	-.2050	.0130	-.0890	-.1820
270.000	1.2520	1.2630													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0[illegible]7	.0280	.0010
30.000	.0190	.0110	-.0340
60.000	.0780	.0530	-.0640
90.000			-.1280
120.000	.0790	.0740	-.0980
135.000	.0980	.0230	-.1420
150.000	.1050	-.1040	-.1550
165.000		-.2480	-.1880
180.000	.0790		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT11)

MACH (3) = 1.100 BETAT (8) = 8.300

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L1	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2330	1.2690	.7250	.2570	-.1180	-.2070	-.3090	-.2430	.1350	.1100	-.0370	-.0350	-.0790	-.0450	-.0460
30.000	1.2330		.5650	.1080	-.2510	-.3260	-.4250	-.3630	.1650	.1710	-.0360	-.1530	-.1300	-.1230	-.1090
60.000	1.2330		.4180	-.0310	-.3490	-.4220	-.5050	-.0340	.0720	.1650	-.0870	-.1640	-.1040	-.0800	-.0360
90.000	1.2330	.9680	.3290	-.1110	-.4030	-.4700	-.2350	-.1150	.4490	-.5730	-.5520	-.2080	-.0890	-.1080	-.1530
120.000	1.2330		.2830	-.1320	-.4150	-.4710	-.1270	-.1030	.0560	-.0650	-.1980	-.0530	.0000	-.0930	-.2520
135.000	1.2330							-.0940		.1340		-.0710		-.1190	
150.000	1.2330		.2920	-.1280	-.4170	-.4750	-.0990	-.0880	.0040	.1110	-.1190	-.1240	-.0120	-.1330	-.2300
165.000	1.2330			-.1270	-.4170	-.4720	-.0940	-.0900	.0050	.1590	-.0810		-.0060		-.2820
180.000	1.2330	.9840	.3270	-.1120	-.4110	-.4620	-.0700	-.0710	.0140	.1760	-.0740	-.1980	.0120	-.1420	-.2210
270.000	1.2330	1.2640													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0110	.0290	-.0430
30.000	-.0110	-.0180	-.0620
60.000	.0080	.0270	-.0830
90.000			-.1530
120.000	.0080	.0420	-.1510
135.000	.1130	-.0300	-.1690
150.000	.1080	-.2080	-.1820
165.000		-.2570	-.1940
180.000	.0550		

MACH (4) = 1.245 BETAT (1) = -8.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3120	1.3590	.7760	.3170	-.0320	-.1160	-.2190	-.1770	-.0750	.0610	.0710	-.0550	-.0900	-.0490	-.0340
30.000	1.3120		.6810	.4140	.0410	-.0430	-.1510	-.1040	.2480	.1540	-.0870	-.0170	.0490	.0160	-.0310
60.000	1.3120		.6870	.4190	.0470	-.0410	-.1480	-.1030	.4730	.1930	-.2410	-.0010	.0840	.0590	.0360
90.000	1.3120	1.3540	.7900	.3240	-.0280	-.1160	-.2110	-.1690	.5000	-.3530	-.3280	-.1760	-.0590	.0580	.0730
120.000	1.3120		.6260	.1860	-.1450	-.2220	-.2990	-.2710	.0360	-.2900	-.3630	-.1720	.0020	.1210	.0710
135.000	1.3120							-.3210		-.1970		-.1360		.0930	
150.000	1.3120		.4810	.0800	-.2440	-.3130	-.3860	-.3560	-.0310	.0830	.1060	-.1090	-.0340	.0620	.0710
165.000	1.3120			.0080	-.2780	-.3450	-.4130	-.3740	.0820	.2320	.0510		-.0840		.0350
180.000	1.3120	1.0550	.3930	-.0280	-.2990	-.3630	-.4290	-.3840	.0410	.3130	.0500	-.1750	-.2110	-.2100	-.0790
270.000	1.3120	1.0510													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RSNT11)

MACH (4) = 1.245 BETAT (1) = -8.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0790	.0500	.0280
30.000	.0180	.0880	.0970
60.000	.1020	.0920	.0770
90.000			-.2640
120.000	.1750	.3640	.2150
135.000	.2000	.4080	.2120
150.000	.2090	.4350	.1880
165.000		.4370	.2070
180.000	.0980		

MACH (4) = 1.249 BETAT (2) = -6.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.9027	.9365	.9372
PHI															
.000	1.3360	1.3840	.8010	.3390	-.0170	-.1010	-.2070	-.1650	-.1010	.1920	.1190	-.0410	-.0520	-.0290	-.0130
30.000	1.3360		.8680	.3970	.0300	-.0560	-.1670	-.1170	.2110	.1790	.0480	-.0310	.0360	.0080	-.0240
60.000	1.3360		.8430	.3770	.0110	-.0790	-.1760	-.1330	.4350	.2110	-.2320	.0130	.0600	.0430	.0140
90.000	1.3360	1.3370	.7370	.2790	-.0660	-.1500	-.2440	-.2070	.4940	-.3500	-.3370	-.1940	-.0990	.0540	.0660
120.000	1.3360		.5940	.1560	-.1680	-.2440	-.3190	-.2880	.0390	-.2830	-.2840	-.1960	-.0080	.1010	.0540
135.000	1.3360							-.3260		-.1040		-.1670		.0890	
150.000	1.3360		.4740	.0520	-.2480	-.3170	-.3850	-.3500	.0520	.1440	.0780	-.1780	.0020	.0400	.0360
165.000	1.3360			.0080	-.2700	-.3390	-.4010	-.3630	.0670	.2390	.0200		-.0600		.0020
180.000	1.3360	1.0700	.4050	-.0170	-.2830	-.3500	-.4120	-.2500	.0480	.2430	.0080	-.1030	-.2140	.0790	-.0630
270.000	1.3360	1.1070													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0510	.0200	.0220
30.000	.0230	.0800	.0640
60.000	.0990	.0750	.0580
90.000			-.2650
120.000	.1290	.3330	.1980
135.000	.1510	.3640	.1790
150.000	.1550	.3750	.1480
165.000		.3630	.1560
180.000	.0210		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT11)

MACH (4) = 1.249 BETAT (3) = -4.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3530	1.3960	.8110	.3460	-.0100	-.0930	-.2010	-.1590	-.0940	.2870	.1450	-.0340	-.0520	-.0150	.0040
30.000	1.3530		.8450	.3760	.0110	-.0730	-.1850	-.1370	.1670	.2070	.0400	-.0410	.0170	.0000	-.0260
60.000	1.3530		.7930	.3270	-.0240	-.1120	-.2080	-.1690	.3840	.2270	-.2120	.0190	.0410	.0240	-.0010
90.000	1.3530	1.3120	.6910	.2350	-.1020	-.1880	-.2750	-.2360	.4900	-.3610	-.3480	-.2100	-.0610	.0590	.0500
120.000	1.3530		.5630	.1260	-.1880	-.2660	-.3400	-.3040	.0400	-.2120	-.2640	-.2010	.0070	.0990	.0070
135.000	1.3530							-.3330		-.0650		-.2060		.0740	
150.000	1.3530		.4680	.0470	-.2490	-.3220	-.3870	-.3420	.0730	.1720	.0300	-.1160	-.0520	.1010	-.0130
165.000	1.3530			.0150	-.2680	-.3350	-.3960	-.2600	.0270	.2490	-.0330		-.1250		-.0290
180.000	1.3530	1.0880	.4150	-.0070	-.2750	-.3420	-.4050	-.0540	.0100	.2260	-.0330	-.0750	-.2240	.1380	-.0580
270.000	1.3530	1.1600													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0280	.0340	.0280
30.000	.0230	.0620	.0530
60.000	.0920	.0660	.0450
90.000			-.2070
120.000	.1000	.3030	.1650
135.000	.1020	.3190	.1440
150.000	.1180	.3070	.1300
165.000		.1780	.1450
180.000	.1200		

MACH (4) = 1.248 BETAT (4) = -2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3620	1.4070	.8210	.3500	-.0070	-.0940	-.1900	-.1510	-.0840	.3280	.1590	-.0280	-.0510	-.0090	.0210
30.000	1.3620		.8180	.3490	-.0160	-.0940	-.2010	-.1550	.0860	.2710	.1120	-.0480	.0030	-.0060	-.0280
60.000	1.3620		.7460	.2800	-.0650	-.1460	-.2370	-.2020	.3720	.2440	-.1740	.0250	.0110	.0060	-.0080
90.000	1.3620	1.2850	.6410	.1870	-.1410	-.2200	-.3050	-.2690	.4890	-.3700	-.3940	-.3110	-.0420	.0630	.0220
120.000	1.3620		.5290	.0940	-.2130	-.2850	-.3560	-.3190	.0930	-.1710	-.2840	-.1790	.0340	.0990	-.0360
135.000	1.3620							-.3390		-.0240		-.1820		.1010	
150.000	1.3620		.4580	.0340	-.2540	-.3230	-.3890	-.1940	.0290	.1410	-.0100	-.1200	-.0440	.1130	-.0150
165.000	1.3620			.0100	-.2700	-.3320	-.3900	-.0490	-.0010	.2070	.0350		-.1260		-.0150
180.000	1.3620	1.0960	.4240	-.0050	-.2720	-.3360	-.3290	-.0370	.0090	.1790	.0370	-.0630	-.1890	.1270	-.0150
270.000	1.3620	1.2100													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK (EXT11)

MACH (4) = 1.248 BETAT (4) = -2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0150	.0390	.0360
30.000	.0190	.0800	.0440
60.000	.0860	.0650	.0170
90.000			-.1360
120.000	.0720	.2330	.1100
135.000	.0900	.2550	.1090
150.000	.1290	.2310	.0990
165.000		.1130	.1050
180.000	.1380		

MACH (4) = 1.248 BETAT (5) = 2.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3660	1.4010	.8160	.3510	-.0120	-.0920	-.1990	-.1570	-.0910	.3110	.1550	-.0320	-.0560	-.0140	.0190
30.000	1.3660		.7490	.2820	-.0660	-.1400	-.2430	-.2010	.0020	.2750	.1350	-.0750	-.0570	-.0350	-.0590
60.000	1.3660		.6390	.1890	-.1380	-.2160	-.3020	-.2690	.2820	.2770	-.1380	-.0010	-.0360	-.0270	-.0300
90.000	1.3660	1.2080	.5400	.0970	-.2090	-.2850	-.3570	-.3190	.5250	-.3650	-.3880	-.3530	-.0690	.0190	-.0170
120.000	1.3660		.4590	.0340	-.2530	-.3220	-.3870	-.3410	.0520	-.1170	-.2560	-.1170	.0440	.0790	-.0660
135.000	1.3660							-.1400		.1060		-.1870		.0800	
150.000	1.3660		.4250	.0100	-.2690	-.3370	-.3920	-.0680	-.0040	.1440	.0030	-.1530	.0050	.0660	-.0520
165.000	1.3660			-.0010	-.2730	-.3370	-.3450	-.0470	.0050	.1890	.0490		-.1340		-.0360
180.000	1.3660	1.1050	.4260	-.0040	-.2730	-.3370	-.3540	-.0410	.0090	.1770	.0520	-.0620	-.2030	.1250	-.0170
270.000	1.3660	1.2920													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0170	.0370	.0360
30.000	-.0170	.0350	.0220
60.000	.0800	.0410	-.0090
90.000			-.0680
120.000	.0480	.1430	.0030
135.000	.0710	.1190	.0210
150.000	.0930	.0530	-.0030
165.000		-.1080	-.0340
180.000	.1390		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT11)

AMES 11-707 I49 02A + S3 + T9 EXTERNAL TANK

MACH (4) = 1.247 BETAT (6) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3580	1.3880	.8030	.3390	-.0170	-.0990	-.1990	-.1600	-.0950	.2950	.1330	-.0370	-.0460	-.0240	.0050
30.000	1.3580		.7080	.2550	-.0920	-.1670	-.2610	-.2260	-.1170	.3010	.1320	-.0830	-.0650	-.0490	-.0800
60.000	1.3580		.5860	.1400	-.1730	-.2490	-.3300	-.2980	.1480	.3510	-.0840	-.0110	-.0560	-.0470	-.0330
90.000	1.3580	1.1590	.4900	.0550	-.2380	-.3110	-.3820	-.3280	.5020	-.3720	-.4120	-.3620	-.0940	-.0190	-.0350
120.000	1.3580		.4230	.0030	-.2720	-.3380	-.4020	-.2790	.0240	-.0740	-.2260	-.0720	.0310	.0630	-.0910
135.000	1.3580							-.1030		.1330		-.1580		.0640	
150.000	1.3580		.4070	-.0090	-.2830	-.3440	-.4000	-.0660	-.0020	.1390	.0200	-.1830	-.0550	.0640	-.0910
165.000	1.3580			-.0120	-.2820	-.3430	-.3940	-.0490	.0100	.1890	.0440		-.2240		-.0910
180.000	1.3580	1.1020	.4240	-.0050	-.2790	-.3420	-.4060	-.0560	.0140	.1900	.0430	-.0730	-.2250	.1390	-.0620
270.000	1.3580	1.3230													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0290	.0310	.0330
30.000	-.0290	.0190	.0070
60.000	.0730	.0290	-.0240
90.000			-.0790
120.000	.0480	.1090	-.0340
135.000	.0770	.1130	-.0170
150.000	.1150	.0890	-.0670
165.000		-.2250	-.1160
180.000	.1620		

MACH (4) = 1.248 BETAT (7) = 6.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3380	1.3730	.7990	.3350	-.0210	-.1040	-.2060	-.1700	-.1010	.1880	.1070	-.0460	-.0910	-.0320	-.0120
30.000	1.3380		.6690	.2210	-.1210	-.1960	-.2860	-.2540	-.1990	.3130	.1070	-.1020	-.0880	-.0730	-.1100
60.000	1.3380		.5340	.0920	-.2120	-.2880	-.3670	-.3380	.1370	.3440	-.0790	-.0360	-.0810	-.0630	-.0330
90.000	1.3380	1.1070	.4360	.0100	-.2730	-.3450	-.4120	-.2010	.5460	-.3780	-.4640	-.3250	-.1430	-.0470	-.0420
120.000	1.3380		.3810	-.0280	-.2960	-.3600	-.4130	-.0930	-.0200	-.0610	-.1940	-.0610	.0150	.0390	-.1030
135.000	1.3380							-.0750		.1290		-.1310		.0380	
150.000	1.3380		.3780	-.0250	-.2970	-.3610	-.4140	-.0710	.0180	.1160	.0190	-.1990	-.1090	.0200	-.0980
165.000	1.3380			-.0280	-.2950	-.3600	-.4160	-.0760	.0010	.1740	.0230		-.2460		-.1280
180.000	1.3380	1.0790	.4050	-.0150	-.2900	-.3600	-.4130	-.0540	-.0060	.1930	.0190	-.0940	-.2340	.0970	-.0680
270.000	1.3380	1.3440													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT11)

MACH (4) = 1.246 BETAT (7) = 6.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0470	.0130	.0170
30.000	-.0480	-.0020	.0160
60.000	.0680	.0340	-.0090
90.000			-.0660
120.000	.0680	.0940	-.0660
135.000	.0940	.0770	-.0670
150.000	.1200	.0090	-.1070
165.000		-.1790	-.1560
180.000	.0730		

MACH (4) = 1.247 BETAT (8) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3180	1.3460	.7790	.3270	-.0290	-.1110	-.2130	-.1820	-.0560	.0380	.0760	-.0960	-.0900	-.0520	-.0310
30.000	1.3180		.6210	.1780	-.1510	-.2190	-.3120	-.2850	-.2230	.2730	.0760	-.1160	-.0960	-.0960	-.1390
60.000	1.3180		.4730	.0500	-.2470	-.3210	-.3990	-.3670	.1560	.2740	-.0680	-.0590	-.0950	-.0730	-.0480
90.000	1.3180	1.0470	.3890	-.0300	-.2960	-.3660	-.4320	-.2780	.4960	-.3760	-.4100	-.3040	-.2080	-.0730	-.0750
120.000	1.3180		.3440	-.0550	-.3110	-.3730	-.4300	-.0870	-.0250	-.0400	-.1530	-.0690	-.0240	.0240	-.1160
135.000	1.3180							-.0860		.1000		-.1260		.0110	
150.000	1.3180		.3510	-.0500	-.3100	-.3740	-.4260	-.1000	.0170	.1750	-.0140	-.2260	-.1480	.0020	-.0870
165.000	1.3180			-.0440	-.3050	-.3740	-.3830	-.0810	-.0380	.1790	-.1360		-.3130		-.1440
180.000	1.3180	1.0650	.3920	-.0230	-.3020	-.3660	-.4020	-.0770	-.0320	.1970	-.1380	-.1110	-.2110	-.2170	-.0790
270.000	1.3180	1.3630													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0700	.0320	.0250
30.000	-.0420	.0080	-.0220
60.000	.0870	.0200	-.0370
90.000			-.0820
120.000	.0680	.0550	-.0830
135.000	.1080	.0070	-.1110
150.000	.1280	-.1480	-.1410
165.000		-.2180	-.1570
180.000	.0700		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT12) (27 APR 73)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .300
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.170

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2410	1.0010	.3370	-.0940	-.3890	-.4560	-.2080	-.0980	.0130	.0410	-.2050	-.3030	-.0960	-.0380	-.0240
30.000	1.2410		.4290	-.0280	-.3430	-.4120	-.4990	-.1360	-.0340	-.1820	-.4540	-.1570	-.1160	-.1050	-.1040
60.000	1.2410		.5730	.1140	-.2350	-.3120	-.3780	.0490	.0290	-.3780	-.5650	-.2040	-.1070	-.1100	-.0360
90.000	1.2410	1.2830	.7260	.2540	-.1120	-.2080	-.3130	.3170	.4590	-.5430	-.3670	-.4080	-.0770	-.1210	-.0880
120.000	1.2410		.8180	.3460	-.0420	-.1300	-.2350	.3040	.5060	.1830	.2320	.1820	.1300	.0120	-.1760
135.000	1.2410							.2540		.3080		.2020		-.0060	
150.000	1.2410		.8190	.3450	-.0450	-.1300	-.2320	.0841	.4300	.4020	.1680	.1520	.1040	-.0770	-.2020
165.000	1.2410			.3010	-.0770	-.1610	-.2640	-.0900	.4270	.4840	.0300		.0140		-.2970
180.000	1.2410	1.2720	.7170	.2410	-.1270	-.2070	-.3130	-.2000	.4210	.4760	-.1670	.1430	-.0790	-.2320	-.4430
270.000	1.2410	.9760													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0720	-.0030	-.0940
30.000	-.0720	-.0390	-.0640
60.000	-.0310	-.0470	-.1270
90.000			-.2570
120.000	.1530	.1710	-.1440
135.000	.1540	.2180	-.1140
150.000	.1810	.2610	-.1140
165.000		.1960	-.0890
180.000	.0320		

MACH (1) = 1.100 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2810	1.0300	.3640	-.0810	-.3800	-.4400	-.5070	-.0910	.0280	.0710	-.1360	-.3250	-.0680	.0060	-.0120
30.000	1.2810		.4100	-.0470	-.3560	-.4210	-.5100	-.1350	.0300	-.0680	-.3660	-.1610	-.0980	-.0500	-.0880
60.000	1.2810		.5070	.0470	-.2880	-.3700	-.4590	-.0600	.0590	-.3460	-.5650	-.2360	-.1080	-.0640	-.0780
90.000	1.2810	1.2450	.6290	.1540	-.1980	-.2870	-.3880	.1320	.4590	-.5660	-.4000	-.4120	-.1890	-.1430	-.1100
120.000	1.2810		.7320	.2540	-.1160	-.2110	-.3060	.1430	.5230	.2140	.1430	.1600	.0540	-.0470	-.2500
135.000	1.2810							-.1330		.3290		.1940		-.0520	
150.000	1.2810		.7840	.3010	-.0870	-.1730	-.2760	-.1930	.4700	.4050	-.0560	.1910	.0490	-.1000	-.2910

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT12)

MACH (1) = 1.100 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.2810			.2910	-.0860	-.1830	-.2790	-.2190	.4770	.4840	-.1160		.0150		-.3040
180.000	1.2810	1.3170	.7500	.2620	-.1090	-.2000	-.3030	-.2440	.4770	.5060	-.2690	.1470	.0020	-.1780	-.3480
270.000	1.2810	1.0880													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0730	.0030	-.1030
30.000	-.0680	-.0060	-.0960
60.000	-.0480	-.0090	-.0930
90.000			-.1530
120.000	.1350	.0940	-.1540
135.000	.1550	.1130	-.2270
150.000	.1700	.1190	-.2140
165.000		-.0380	-.1890
180.000	.1230		

MACH (1) = 1.097 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2890	1.0310	.3660	-.0840	-.3760	-.4390	-.5120	-.0980	.0520	.1090	-.1070	-.3520	-.0340	.0220	-.0080
30.000	1.2890		.3620	-.0710	-.3760	-.4370	-.5170	-.0910	.0190	.0270	-.2820	-.1900	-.0530	-.0050	-.0930
60.000	1.2890		.4370	-.0190	-.3400	-.4160	-.5000	-.0860	.1140	-.2900	-.4360	-.2500	-.0750	-.1630	-.0810
90.000	1.2890	1.1730	.5270	.0600	-.2800	-.3660	-.4530	.0230	.4550	-.5560	-.4450	-.4210	-.0480	-.1170	-.1280
120.000	1.2890		.6270	.1590	-.2020	-.2890	-.3800	.1240	.5230	.2410	.0050	.1200	.0200	-.1220	-.2990
135.000	1.2890							.0920		.3240		.1480		-.1410	
150.000	1.2890		.7240	.2520	-.1280	-.2230	-.3200	-.1660	.4650	.3770	-.1950	.1500	.0050	-.1740	-.3230
165.000	1.2890			.2680	-.1110	-.2050	-.3010	-.2210	.4800	.4590	-.2930		.0100		-.3180
180.000	1.2890	1.3280	.7610	.2710	-.1060	-.1940	-.3020	-.2330	.4930	.5140	-.2940	.1700	.0210	-.1840	-.3210
270.000	1.2890	1.1730													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0940	.0170	-.0730
30.000	-.0930	-.0040	-.0850
60.000	-.0490	.0060	-.0560
90.000			-.1810
120.000	.0900	.0170	-.2090
135.000	.0900	.0060	-.2720
150.000	.1190	-.0240	-.2530

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT12)

AMES 11-7ft IA9 OEA + S3 + T- EXTERNAL TANK

MACH (1) = 1.097 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1650	-.2660
180.000	.1410		

MACH (1) = 1.099 BETAT (4) = 4.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2760	1.0170	.3590	-.0870	-.3810	-.4430	-.3940	-.0940	.0350	.0740	-.1380	-.3130	-.0720	.0010	-.0130
30.000	1.2760		.3420	-.1050	-.3920	-.4520	-.3410	-.0900	-.0090	-.0040	-.2140	-.2740	-.0550	-.0040	-.1030
60.000	1.2760		.3640	-.0850	-.3760	-.4470	-.1460	-.1000	-.0070	-.2300	-.2970	-.2660	-.0680	-.0800	-.1310
90.000	1.2760	1.0800	.4220	-.0370	-.3440	-.4240	-.0520	-.0690	.5580	-.5430	-.4930	-.4080	-.1250	-.1470	-.1320
120.000	1.2760		.5110	.0570	-.2790	-.3540	-.4440	.0230	.5290	.2640	-.0780	.0980	-.0220	-.1860	-.3340
135.000	1.2760							.0220		.3140		.1080		-.2220	
150.000	1.2760		.6450	.1770	-.1840	-.2720	-.3680	-.1430	.4350	.3300	-.2700	.0970	-.0550	-.2600	-.3960
165.000	1.2760			.2260	-.1480	-.2310	-.3280	-.2700	.4550	.4110	-.3680		-.0390		-.3990
180.000	1.2760	1.3160	.7520	.2630	-.1100	-.1970	-.3020	-.2340	.4770	.5030	-.3680	.1490	.0000	-.1830	-.3530
270.000	1.2760	1.2990													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0630	.0050	-.1080
30.000	-.0630	.0100	-.1040
60.000	-.0480	-.0040	-.0940
90.000			-.2170
120.000	.0720	-.0700	-.2180
135.000	.0730	-.0610	-.2470
150.000	.0660	-.0950	-.2370
165.000		-.3450	-.2540
180.000	.1270		

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT12)

MACH (1) = 1.105 BETAT (5) = 8.300

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2370	.9790	.3300	-.1010	-.3940	-.4570	-.2230	-.1090	.0080	.0390	-.1940	-.2630	-.1130	-.0580	-.0420
30.000	1.2370		.2910	-.1330	-.4130	-.4690	-.1500	-.0970	-.0190	-.1190	-.2350	-.3260	-.1150	-.0610	-.1270
60.000	1.2370		.2940	-.1340	-.4090	-.4720	-.1190	-.1070	-.0940	-.1940	-.2160	-.2520	-.1070	-.0740	-.0990
90.000	1.2370	.9700	.3320	-.1150	-.3960	-.4650	-.0890	-.1390	.6090	-.5090	-.4810	-.3010	-.4850	-.2000	-.1750
120.000	1.2370		.4080	-.0260	-.3400	-.4130	-.4990	-.0780	.5330	.2750	-.1160	.0780	-.0460	-.2310	-.3970
135.000	1.2370							-.2390		.2780		.0540		-.2870	
150.000	1.2370		.5580	.1090	-.2410	-.3280	-.4170	-.3650	.3730	.2500	-.3510	.0540	-.1240	-.3470	-.5140
165.000	1.2370			.1790	-.1870	-.2700	-.3620	-.3180	.3820	.3320	-.4370		-.1130		-.5710
180.000	1.2370	1.2780	.7210	.2480	-.1270	-.2130	-.3170	-.2520	.4080	.4700	-.3110	.1340	-.0550	-.2990	-.4470
270.000	1.2370	1.2780													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0890	.0070	-.0940
30.000	-.0880	.0240	-.0950
60.000	-.0480	.0030	-.1110
90.000			-.2100
120.000	-.0080	-.1040	-.2640
135.000	-.0070	-.0850	-.2790
150.000	-.0280	-.2440	-.3100
165.000		-.3260	-.3140
180.000	.0270		

MACH (2) = 1.250 BETAT (1) = -8.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3180	1.0740	.3940	-.0200	-.2890	-.3500	-.4290	-.3860	-.0100	.0350	-.0830	-.2750	-.1660	-.0990	-.0100
30.000	1.3180		.4810	.0650	-.2400	-.3020	-.3930	-.3590	-.1190	-.2070	-.3720	-.2290	-.1070	-.1180	-.1190
60.000	1.3180		.6330	.1870	-.1370	-.2220	-.3050	-.2440	.0350	-.2860	-.6200	-.2740	-.1230	-.1100	-.0180
90.000	1.3180	1.3590	.7870	.3240	-.0290	-.1190	-.2160	-.1720	.5270	-.3500	-.4580	-.2550	-.3090	-.1250	-.0550
120.000	1.3180		.8780	.4120	.0460	-.0470	-.1470	-.1080	.5020	.2810	.0120	.2610	.1960	.1100	-.0790
135.000	1.3180							-.1050		.3990		.2640		.1240	
150.000	1.3180		.8760	.4120	.0370	-.0530	-.1450	-.1080	.5870	.4950	.1030	.2160	.1590	.0690	-.0790
165.000	1.3180			.3700	.0070	-.0810	-.1730	-.1350	.3850	.5810	.0720		.1540		-.1750
180.000	1.3180	1.3470	.7730	.3120	-.0360	-.1230	-.2150	-.1760	.3420	.5810	.0090	-.2160	.1310	-.0680	-.2990
270.000	1.3180	1.0470													

X/LT	.7449	.8526	.9290

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 CBA + S3 + T9 EXTERNAL TANK (RBMT12)

MACH (2) = 1.250 BETAT (1) = -8.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8328	.9290
PHI			
.000	-.0510	-.0350	-.0410
30.000	-.0510	-.0480	-.0170
60.000	-.0540	-.0530	-.0480
90.000			-.2120
120.000	.0470	.2280	.0020
135.000	-.0270	.2740	-.0230
150.000	-.0820	.3050	-.0230
165.000		.2740	-.0350
180.000	-.3750		

MACH (2) = 1.251 BETAT (2) = -4.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3610	1.1030	.4200	.0000	-.2690	-.3270	-.4070	-.3570	.0080	.0900	-.0240	-.2450	-.1990	-.0670	.0250
30.000	1.3610		.4720	.0390	-.2460	-.3070	-.3960	-.3560	-.0860	-.0650	-.2390	-.2260	-.0970	-.1010	-.0680
60.000	1.3610		.5700	.1270	-.1830	-.2690	-.3460	-.2960	.0260	-.2620	-.5780	-.3060	-.0730	-.0790	-.0810
90.000	1.3610	1.3240	.6910	.2370	-.1020	-.1930	-.2820	-.2400	.5300	-.3620	-.3670	-.3120	-.2480	-.2200	-.0800
120.000	1.3610		.7900	.3300	-.0240	-.1190	-.2110	-.1710	.5090	.3260	.0010	.1200	.2210	.0540	-.1340
135.000	1.3610							-.1500		.4310		.1280		.0550	
150.000	1.3610		.8390	.3770	.0080	-.0880	-.1770	-.1400	.4340	.5140	.0220	.0940	.2240	.0310	-.1510
165.000	1.3610			.3670	.0030	-.0900	-.1790	-.1410	.3530	.5980	-.0410		.2080		-.1680
180.000	1.3610	1.3930	.8100	.3390	-.0200	-.1080	-.2050	-.1620	.3280	.6270	-.1340	-.0860	.1850	-.0370	-.2250
270.000	1.3610	1.1630													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0540	-.0520	-.0670
30.000	-.0530	-.0510	-.0400
60.000	-.0270	-.0260	-.0290
90.000			-.0790
120.000	-.0350	.1480	-.0770
135.000	-.1050	.1760	-.1200
150.000	-.1550	.1890	-.1180
165.000		.1050	-.1490
180.000	-.2870		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IASA

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT32)

MACH (2) = 1.248 BETAT (3) = .020

SECTION (1: XTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3790	1.1120	.4260	.0000	-.2720	-.3280	-.4020	-.3470	.0220	.1000	-.0040	-.2350	-.2160	-.0800	.0340
30.000	1.3790		.4420	.0060	-.2700	-.3230	-.4020	-.3510	-.0230	.0300	-.1490	-.2280	-.1610	-.0770	-.0370
60.000	1.3790		.4990	.0560	-.2380	-.3100	-.3850	-.3390	-.0010	-.2610	-.5120	-.3080	-.0310	-.0680	-.1020
90.000	1.3790	1.2580	.5890	.1330	-.1810	-.2600	-.3410	-.2940	.5440	-.3570	-.3150	-.3980	-.3130	-.1420	-.1000
120.000	1.3790		.6920	.2300	-.1070	-.1890	-.2710	-.2290	.4940	.3480	.0270	.0590	.1560	-.0120	-.1900
135.000	1.3790							-.2100		.4550		.0910		-.0260	
150.000	1.3790		.7850	.3150	-.0430	-.1280	-.2190	-.1800	.3190	.4730	-.0230	.0780	.1930	-.0480	-.1900
165.000	1.3790			.3350	-.0260	-.1110	-.2020	- 1650	.3250	.5780	-.1010		.1540		-.2100
180.000	1.3790	1.4110	.8210	.3360	-.0210	-.1050	-.2010	-.1590	.3410	.6900	-.1260	-.0200	.1640	-.0370	-.1900
270.000	1.3790	1.2530													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0400	-.0410	-.0370
30.000	-.0400	-.0340	-.0300
60.000	-.0220	-.0160	-.0310
90.000			-.0910
120.000	-.0390	.0900	-.0910
135.000	-.1510	.0880	-.2040
150.000	-.1800	.0890	-.2210
165.000		-.0110	-.2410
180.000	-.1710		

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3590	1.0980	.4180	-.0070	-.2790	-.3360	-.4080	-.3570	.0140	.0790	-.0320	-.2430	-.1980	-.0750	.0120
30.000	1.3590		.4020	-.0190	-.2880	-.3430	-.4120	-.3610	-.0050	.0270	-.0490	-.1850	-.2080	-.0330	-.0390
60.000	1.3590		.4230	-.0040	-.2760	-.3420	-.4090	-.1930	-.0720	-.1940	-.2870	-.2660	-.0700	-.0980	-.0840
90.000	1.3590	1.1800	.4830	.0450	-.2450	-.3190	-.3910	-.0250	.3970	-.3550	-.3140	-.4430	-.3230	-.2260	-.0840
120.000	1.3590		.5780	.1340	-.1790	-.2580	-.3360	-.0170	.1800	.3340	.0340	.0410	.1200	-.0810	-.2400
135.000	1.3590							-.2670		.3910		.0770		-.0930	
150.000	1.3590		.7040	.2500	-.0920	-.1790	-.2660	-.2290	.2450	.4280	-.1010	.0500	.0880	-.1200	-.2840
165.000	1.3590			.2930	-.0570	-.1410	-.2280	-.1940	.3100	.5330	-.1990		.1220		-.2840
180.000	1.3590	1.3980	.8080	.3270	-.0280	-.1090	-.2060	-.1650	.3280	.6230	-.1980	-.0750	.1700	-.0470	-.2440
270.000	1.3590	1.3160													

X/LT	.7449	.8526	.9290

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT12)

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0810	-.0490	-.0570
30.000	-.0600	-.0340	-.0520
60.000	-.0410	-.0190	-.0550
90.000			-.1400
120.000	-.0830	-.0400	-.1400
135.000	-.1290	-.0750	-.2160
150.000	-.1760	-.0780	-.2070
165.000		-.1830	-.2090
180.000	-.2890		

MACH (2) = 1.247 BETAT (5) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3170	1.0520	.3860	-.0220	-.2960	-.3530	-.4280	-.3900	-.0260	.0100	-.1100	-.2700	-.1510	-.0790	-.0140
30.000	1.3170		.3460	-.0570	-.3150	-.3660	-.4340	-.2690	-.0300	-.0040	-.1090	-.2320	-.2070	-.0720	-.0430
60.000	1.3170		.3440	-.0600	-.3130	-.3710	-.3850	-.1410	-.0760	-.1480	-.2270	-.1960	-.1360	-.0850	-.0290
90.000	1.3170	1.0430	.3830	-.0360	-.3040	-.3700	-.1020	-.0860	.2010	-.3190	-.3080	-.4330	-.2790	-.4040	-.0880
120.000	1.3170		.4630	.0400	-.2530	-.3240	-.3520	-.0210	.1130	.3560	.0600	.0050	.0950	-.0830	-.2780
135.000	1.3170							-.1160		.3760		.0470		-.1280	
150.000	1.3170		.6130	.1740	-.1550	-.2380	-.3180	-.2790	.2020	.3270	-.1990	.0200	.0440	-.1780	-.3840
165.000	1.3170			.2420	-.1020	-.1840	-.2690	-.2320	.2590	.4240	-.2920		.0930		-.4140
180.000	1.3170	1.3520	.7740	.3080	-.0470	-.1300	-.2200	-.1750	.2940	.5670	-.2920	-.2 30	.1500	-.0380	-.2990
270.000	1.3170	1.3500													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0550	-.0420	-.0490
30.000	-.0530	-.0300	-.0660
60.000	-.0320	-.0150	-.0720
90.000			-.1360
120.000	-.0850	-.0500	-.2180
135.000	-.0830	-.0320	-.2400
150.000	-.1370	-.1310	-.2710
165.000		-.2900	-.2740
180.000	-.3830		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT13) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .900
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.102 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2990	1.0400	.3750	-.0640	-.3700	-.4380	-.5000	-.0940	.0060	.0230	-.1970	-.3250	-.1010	-.0530	-.0200
30.000	1.2990		.4680	.0110	-.3190	-.3860	-.4810	-.2640	.0040	-.1560	-.3980	-.1510	-.1070	-.1040	-.1190
60.000	1.2990		.6100	.1360	-.2140	-.2960	-.3910	.0200	.0800	-.3130	-.5380	-.1490	-.0450	-.1270	-.0490
90.000	1.2990	1.3000	.7410	.2610	-.1120	-.2020	-.3060	.3280	.4790	-.5410	-.3960	-.4190	-.0700	-.1220	-.0890
120.000	1.2990		.8090	.3330	-.0510	-.1450	-.2510	.2430	.4820	.1480	.2220	.1790	.1140	.0110	-.1830
135.000	1.2990							.1360		.2810		.1790		-.0020	
150.000	1.2990		.7910	.3170	-.0700	-.1650	-.2640	-.1560	.3990	.3840	.1000	.1390	.0950	-.0770	-.2110
165.000	1.2990			.2720	-.1100	-.1930	-.2970	-.2420	.4020	.4710	-.0630		.0080		-.3010
180.000	1.2990	1.2640	.6860	.2070	-.1560	-.2350	-.3410	-.2870	.4050	.4700	-.2690	.1310	-.0850	-.2420	-.3460
270.000	1.2990	.9940													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0940	-.0050	-.1010
30.000	-.0940	-.0310	-.0630
60.000	-.0160	-.0110	-.0570
90.000			-.1740
120.000	.1610	.1870	-.0680
135.000	.1690	.2350	-.0610
150.000	.1780	.2810	-.0670
165.000		.2430	-.0860
180.000	.0140		

MACH (1) = 1.098 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2990	1.0630	.4100	-.0470	-.3550	-.4180	-.5020	-.0990	.0500	.0820	-.1240	-.3530	-.0990	.0150	-.0040
30.000	1.2990		.4600	-.0100	-.3290	-.3950	-.4870	-.3660	.0570	-.0320	-.3190	-.1590	-.0890	-.0390	-.0880
60.000	1.2990		.5440	.0760	-.2620	-.3460	-.4380	-.0690	.1160	-.2600	-.5440	-.1130	-.0300	-.0560	-.0780
90.000	1.2990	1.2640	.6440	.1630	-.1940	-.2840	-.3800	.1240	.4910	-.5530	-.3310	-.4290	-.0970	-.1400	-.1040
120.000	1.2990		.7150	.2370	-.1370	-.2240	-.3210	.1190	.5020	.1780	.0060	.1580	.0570	-.0920	-.2360
135.000	1.2990							-.2150		.2980		.1780		-.0580	
150.000	1.2990		.7410	.2610	-.1250	-.2100	-.3060	-.2560	.4480	.3860	-.0970	.1960	.0510	-.1010	-.2560

DATE 24 SEP 75 TABULATED PRESSURE DATA - TASA (RBNT13)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (1) = 1.098 BETAT (2) = -4.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.2990			.2450	-.1300	-.2180	-.3130	-.2620	.4500	.4710	-.1390		.0190		-.3050
180.000	1.2990	1.2990	.7030	.2140	-.1530	-.2570	-.3370	-.2800	.4460	.4970	-.3450	.1580	.0000	-.1790	-.3520
270.000	1.2990	1.1070													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0780	-.0080	-.0980
30.000	-.0770	-.0170	-.0960
60.000	-.0500	-.0030	-.0740
90.000			-.1420
120.000	.1310	.1070	-.1420
135.000	.1300	.1250	-.1910
150.000	.1690	.1270	-.1690
165.000		-.0290	-.1500
180.000	.1250		

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3100	1.0900	.4160	-.0430	-.3500	-.4180	-.4960	-.1230	.0600	.1100	-.0940	-.3480	-.0250	.0390	.0080
30.000	1.3100		.4260	-.0360	-.3470	-.4120	-.4950	-.1750	.0270	.0550	-.2400	-.1760	-.0510	.0180	-.0810
60.000	1.3100		.4710	.0080	-.3170	-.3900	-.4720	-.0910	.1430	-.2100	-.4730	-.1000	-.0740	-.0280	-.0660
90.000	1.3100	1.1970	.5430	.0700	-.2700	-.3500	-.4340	.0140	.5140	-.5420	-.4930	-.4310	-.1620	-.1590	-.1130
120.000	1.3100		.6160	.1470	-.2070	-.2930	-.3860	.0900	.4220	.2250	-.0550	.1270	.0200	-.1240	-.2710
135.000	1.3100							.0510		.3150		.1390		-.1340	
150.000	1.3100		.6870	.2140	-.1630	-.2460	-.3430	-.1540	.4020	.3760	-.2000	.1580	.0150	-.1660	-.3100
165.000	1.3100			.2210	-.1480	-.2340	-.3280	-.2740	.4250	.4580	-.2870		.0200		-.3120
180.000	1.3100	1.3140	.7150	.2260	-.1500	-.2260	-.3290	-.2720	.4390	.5130	-.2990	.1810	.0300	-.1690	-.3150
270.000	1.3100	1.1970													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0870	-.0090	-.0690
30.000	-.0880	.0040	-.0750
60.000	-.0650	-.0230	-.0890
90.000			-.1690
120.000	.1110	.0250	-.1700
135.000	.1230	.0210	-.2360
150.000	.1370	-.0080	-.2290

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S5 + T9 EXTERNAL TANK (RBNT13)

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1540	-.2420
180.000	.1550		

MACH (1) = 1.097 BETAT (4) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2674	.3412	.3950	.4489	.5027	.5565	.6972
PHI															
.000	1.3000	1.0730	.4080	-.0480	-.3570	-.4240	-.5040	-.0930	.0270	.0750	-.1310	-.3230	-.0610	.0110	-.0090
30.000	1.3000		.3850	-.0710	-.3740	-.4360	-.5090	-.0770	.0000	.0250	-.1480	-.2430	-.0760	.0060	-.0060
60.000	1.3000		.3980	-.0610	-.3640	-.4250	-.2040	-.0880	.0270	-.1490	-.3660	-.1560	-.0740	-.0500	-.0770
90.000	1.3000	1.1030	.4400	-.0190	-.3390	-.4070	-.0520	-.0480	.4590	-.5260	-.5090	-.3690	-.3050	-.1800	-.1260
120.000	1.3000		.5090	.0500	-.2860	-.3620	-.0370	.0200	.3390	.2340	-.0930	.0820	-.0220	-.1620	-.3230
135.000	1.3000							.0050		.3090		.0700		-.2710	
150.000	1.3000		.6120	.1460	-.2130	-.3000	-.3660	-.1040	.3770	.3280	-.2600	.0920	-.0490	-.2550	-.3670
165.000	1.3000			.1850	-.1850	-.2620	-.3510	-.3010	.4170	.4070	-.3620		-.0340		-.3920
180.000	1.3000	1.3020	.7070	.2150	-.1540	-.2340	-.3310	-.2780	.4470	.4970	-.3670	.1630	.0040	-.1790	-.3510
270.000	1.3000	1.2630													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0840	-.0040	-.1060
30.000	-.0830	.0110	-.0840
60.000	-.0370	-.0150	-.1090
90.000			-.2100
120.000	.0940	-.0490	-.2100
135.000	.0990	-.0490	-.2230
150.000	.1010	-.0800	-.2200
165.000		-.3210	-.2300
180.000	.1300		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK (RBNT13)

MACH (1) = 1.102 BETAT (5) = 8.290

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2590	1.0340	.3810	-.0650	-.3680	-.4370	-.5080	-.1050	.0100	.0170	-.1970	-.2820	-.1020	-.0610	-.0300
30.000	1.2590		.3290	-.1070	-.3980	-.4560	-.1610	-.0910	-.0150	-.0560	-.1980	-.3110	-.1100	-.0360	-.0740
60.000	1.2590		.3210	-.1160	-.3940	-.4500	-.1100	-.0930	-.0980	-.1460	-.2270	-.2090	-.0980	-.0530	-.0840
90.000	1.2590	.9930	.3520	-.0920	-.3880	-.3620	-.0560	-.0990	.4490	-.4980	-.4970	-.1970	-.4980	-.2190	-.1590
120.000	1.2590		.4080	-.0310	-.3480	-.4160	-.1150	-.0680	.3850	.2690	-.1260	.0490	-.0450	-.2320	-.3800
135.000	1.2590							-.0830		.2820		.0160		-.2840	
150.000	1.2590		.5340	.0810	-.2610	-.3450	-.4380	-.3620	.3390	.2540	-.3440	.0550	-.1240	-.3430	-.5110
165.000	1.2590			.1370	-.2200	-.3010	-.3900	-.3430	.3650	.3300	-.4370		-.1220		-.5700
180.000	1.2590	1.2640	.6720	.1980	-.1610	-.2480	-.3550	-.2930	.3800	.4600	-.3710	.0970	-.0570	-.2610	-.4470
270.000	1.2590	1.3000													

X/LT	.7449	.8526	.9290
PHI			
.000	-.1010	-.0100	-.1190
30.000	-.0790	.0200	-.1190
60.000	-.0440	.0040	-.1180
90.000			-.2020
120.000	.0330	-.0780	-.2020
135.000	-.0150	-.0550	-.2750
150.000	-.0170	-.2340	-.2990
165.000		-.3040	-.2970
180.000	.0090		

MACH (2) = 1.245 BETAT (1) = -8.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3400	1.1290	.4[illegible]	.0160	-.2670	-.3290	-.4080	-.3670	-.0080	.0570	-.0750	-.2650	-.1740	-.1000	-.0080
30.000	1.3400		.5370	.1040	-.2080	-.2750	-.3660	-.3290	-.0830	-.1500	-.3040	-.2520	-.0950	-.1000	-.1230
60.000	1.3400		.6710	.2190	-.1130	-.1930	-.2900	-.2200	.1190	-.1920	-.5990	-.2200	-.0730	-.0790	-.0200
90.000	1.3400	1.3770	.7980	.3300	-.0260	-.1120	-.2050	-.1210	.5390	-.3450	-.5950	-.3070	-.3210	-.0550	-.0540
120.000	1.3400		.8540	.3880	.0230	-.0650	-.1640	-.1270	.4530	.2250	-.0720	.1900	.2040	.1020	-.0780
135.000	1.3400							-.1280		.3560		.1625		.1220	
150.000	1.3400		.8310	.3660	-.0020	-.0870	-.1800	-.1450	.2980	.4680	.0770	.1210	.1650	.0900	-.0940
165.000	1.3400			.3220	-.0370	-.1180	-.2080	-.1730	.3300	.5480	.0750		.0530		-.1740
180.000	1.3400	1.3340	.7260	.2620	-.0780	-.1590	-.2480	-.2120	.3030	.5560	.0130	-.2500	.1280	-.0600	-.3010
270.000	1.3400	1.0720													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RUN713)

MACH (2) = 1.245 BETAT (1) = -8.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0410	-.0390	-.0430
30.000	-.0490	-.0370	-.0140
60.000	-.0520	-.0240	-.0140
90.000			-.1920
120.000	.0240	.2800	-.0360
135.000	-.0440	.3130	.0190
150.000	-.0990	.3420	.0160
165.000		.3160	.0530
180.000	-.3870		

MACH (2) = 1.251 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.9565	.6372
PHI															
.000	1.3800	1.1570	.4670	.0350	-.2440	-.3080	-.3830	-.3390	.0130	.1050	-.0110	-.2240	-.2160	-.0880	.0330
30.000	1.3800		.5170	.0730	-.2180	-.2840	-.3690	-.3250	-.0540	.0050	-.1870	-.2620	-.0850	-.0940	-.0350
60.000	1.3800		.6040	.1520	-.1630	-.2380	-.3240	-.2830	.1160	-.1840	-.5460	-.1720	-.0360	-.0410	-.0870
90.000	1.3800	1.3400	.7040	.2430	-.0970	-.1800	-.2700	-.2300	.5410	-.3480	-.5480	-.3450	-.0920	-.2950	-.0880
120.000	1.3800		.7720	.3100	-.0390	-.1250	-.2170	-.1840	.3800	.2940	-.0610	.0750	.2020	.0790	-.1310
135.000	1.3800							-.1750		.4090		.0800		.0700	
150.000	1.3800		.8000	.3330	-.0270	-.1140	-.1980	-.1700	.3490	.4950	.0140	.0230	.2180	.0440	-.1470
165.000	1.3800			.3190	-.0360	-.1200	-.2060	-.1700	.2700	.5850	-.0340		.2090		-.1600
180.000	1.3800	1.3770	.7810	.2890	-.0570	-.1350	-.2280	-.1880	.2730	.5870	-.0350	-.1430	.1920	-.0270	-.2230
270.000	1.3800	1.1800													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0380	-.0520	-.0800
30.000	-.0380	-.0300	-.0420
60.000	-.0280	-.0120	-.0100
90.000			-.0550
120.000	-.0470	.1740	-.0560
135.000	-.1190	.2020	-.0800
150.000	-.1990	.2010	-.0830
165.000		.1160	-.0980
180.000	-.2910		

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + 33 + T9 EXTERNAL TANK (RBNT13)

MACH (2) = 1.246 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3910	1.1620	.4720	.0380	-.2480	-.3070	-.3840	-.3340	.0210	.1140	.0080	-.2180	-.2330	-.0630	.0310
30.000	1.3910		.4860	.0400	-.2440	-.3030	-.3830	-.3340	.0010	.0520	-.1100	-.2910	-.1280	-.0860	-.0350
60.000	1.3910		.5300	.0820	-.2160	-.2870	-.3650	-.3230	.0610	-.1540	-.5620	-.1800	-.0210	-.0500	-.0640
90.000	1.3910	1.2730	.6040	.1460	-.1710	-.2530	-.3290	-.2620	.5560	-.3500	-.3930	-.4160	-.2270	-.2960	-.1120
120.000	1.3910		.6770	.2170	-.1130	-.1980	-.2800	-.2470	.4170	.3180	-.0470	.0280	.1640	-.0020	-.1880
135.000	1.3910							-.2230		.4190		.0520		-.0130	
150.000	1.3910		.7450	.2800	-.0700	-.1540	-.2410	-.2030	.2860	.4580	-.0240	.0230	.1510	-.0320	-.1970
165.000	1.3910			.2940	-.0560	-.1400	-.2280	-.1940	.2880	.5400	-.0920		.1710		-.2030
180.000	1.3910	1.3920	.7710	.2920	-.0550	-.1390	-.2280	-.1900	.3030	.6190	-.0970	-.0460	.1890	-.0350	-.1750
270.000	1.3910	1.2690													

X/LT	.7149	.8526	.9290
PHI			
.000	-.0240	-.0450	-.0320
30.000	-.0240	-.0330	-.0330
60.000	-.0660	-.0180	-.0440
90.000			-.0900
120.000	-.0900	.0790	-.0900
135.000	-.1650	.0960	-.1780
150.000	-.2000	.0940	-.1770
165.000		-.0060	-.2110
180.000	-.1930		

MACH (2) = 1.245 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3790	1.1470	.4620	.0270	-.2500	-.3090	-.3920	-.3440	.0060	.1020	-.0130	-.2330	-.2030	-.0730	.0230
30.000	1.3790		.4400	.0140	-.2610	-.3180	-.3990	-.3490	.0090	.0130	-.0820	-.2760	-.1980	-.0710	-.0330
60.000	1.3790		.4530	.0200	-.2550	-.3270	-.3960	-.3340	.0030	-.0950	-.5030	-.1420	-.0780	-.0720	-.0500
90.000	1.3790	1.1800	.4960	.0590	-.2290	-.3110	-.3820	-.0360	.4880	-.3470	-.3130	-.4720	-.2650	-.3850	-.1020
120.000	1.3790		.5660	.1300	-.1830	-.2660	-.3410	-.0750	.1400	.3330	.0350	-.0150	.1200	-.0470	-.2420
135.000	1.3790							-.2610		.3670		.0470		-.0790	
150.000	1.3790		.6720	.2240	-.1160	-.2040	-.2880	-.2580	.1850	.3830	-.1050	.0020	.0940	-.1080	-.2790
165.000	1.3790			.2610	-.0840	-.1730	-.2590	-.2210	.2450	.5320	-.1990		.1370		-.2700
180.000	1.3790	1.3800	.7630	.2910	-.0580	-.1440	-.2390	-.1960	.2880	.6170	-.1990	-.1660	.1900	-.0370	-.2380
270.000	1.3790	1.3390													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT13)

MACH (2) = 1.245 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0420	-.0550	-.0650
30.000	-.0440	-.0390	-.0520
60.000	-.0440	-.0310	-.0620
90.000			-.1310
120.000	-.0370	-.0260	-.1330
135.000	-.1070	-.0430	-.2160
150.000	-.1340	-.0490	-.1990
165.000		-.1800	-.2150
180.000	-.3040		

MACH (2) = 1.247 BETAT (5) = 8.230

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0492	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3400	1.1030	.4330	.0100	-.2700	-.3310	-.4120	-.3730	-.0120	.0310	-.1050	-.2690	-.1630	-.0940	-.0170
30.000	1.3400		.3810	-.0300	-.2980	-.3510	-.4310	-.3410	-.0210	.0200	-.1050	-.2190	-.1980	-.0770	-.0160
60.000	1.3400		.3740	-.0420	-.2990	-.3660	-.4250	-.1170	-.0710	-.0660	-.2480	-.1360	-.1340	-.0830	-.0250
90.000	1.3400	1.0860	.4040	-.0220	-.2910	-.3660	-.1870	-.0540	.2720	-.3100	-.2650	-.4100	-.1800	-.3940	-.1100
120.000	1.3400		.4630	.0370	-.2530	-.3320	-.3970	-.0460	.1510	.2970	.0260	-.1400	.0910	-.0740	-.2860
135.000	1.3400							-.2370		.3680		-.0590		-.1140	
150.000	1.3400		.5870	.1460	-.1760	-.2610	-.3400	-.2830	.1690	.3550	-.1860	-.1120	.0460	-.1670	-.3840
165.000	1.3400			.2050	-.1290	-.2160	-.2990	-.2690	.2060	.4330	-.2770		.1050		-.4140
180.000	1.3400	1.3430	.7290	.2640	-.0820	-.1680	-.2550	-.2050	.1770	.5640	-.2770	-.2640	.1390	-.0560	-.2940
270.000	1.3400	1.3750													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0500	-.0520	-.0570
30.000	-.0500	-.0350	-.0580
60.000	-.0130	-.0190	-.0770
90.000			-.1370
120.000	-.0440	-.0430	-.2100
135.000	-.1220	-.0380	-.2400
150.000	-.1950	-.1300	-.2750
165.000		-.3010	-.2810
180.000	-.3870		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT14) (27 APR 73)

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	28.5300 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHAT =	-4.000	ORBINC =	.900
RUDDER =	-5.000	ELEVON =	.000
RUDFLR =	.000		

MACH (1) = 1.098 BETAT (1) = -8.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2730	1.1030	.4310	-.0150	-.3350	-.4060	-.4910	-.2130	.0350	.0240	-.1800	-.3360	-.1070	-.0520	-.0170
30.000	1.2730		.5310	.0720	-.2720	-.3470	-.4430	-.3430	.0930	-.1120	-.3710	-.1320	-.0850	-.0880	-.0960
60.000	1.2730		.6520	.1800	-.1790	-.2620	-.3630	.0310	.1470	-.2340	-.5150	-.1320	-.0070	-.0270	-.0730
90.000	1.2730	1.3140	.7480	.2660	-.1110	-.1950	-.2370	.3630	.5080	-.5410	-.3680	-.4340	-.1640	-.1770	-.1020
120.000	1.2730		.7730	.2970	-.0840	-.1680	-.2720	.1590	.4280	.0790	-.0550	.1850	.1160	.0110	-.1700
135.000	1.2730							-.0080		.2290		.2000		-.0020	
150.000	1.2730		.7290	.2560	-.1240	-.2070	-.3050	-.2310	.3560	.3510	-.0750	.1420	.0970	-.0750	-.2170
165.000	1.2730			.2070	-.1680	-.2400	-.3360	-.2910	.3620	.4480	-.0990		.0160		-.3100
180.000	1.2730	1.2310	.6220	.1450	-.2030	-.2830	-.3790	-.3310	.3700	.4510	-.1930	.0270	-.0730	-.2440	-.4490
270.000	1.2730	1.0090													

X/LT	.7449	.8526	.9290
PHI			
.000	-.1150	-.0900	-.1050
30.000	-.1150	-.0380	-.0920
60.000	-.0410	.0150	-.0410
90.000			-.1250
120.000	.1620	.2190	.0240
135.000	.1820	.2620	.0460
150.000	.2060	.3040	.0260
165.000		.2580	.0460
180.000	.0100		

MACH (1) = 1.101 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3130	1.1330	.4600	.0000	-.3210	-.3880	-.4780	-.2600	.0710	.1040	-.1110	-.3440	-.0880	.0290	.0120
30.000	1.3130		.5080	.0380	-.2970	-.3600	-.4590	-.3890	.0880	.0090	-.2880	-.1620	-.0700	-.0150	-.0670
60.000	1.3130		.5820	.1080	-.2350	-.3230	-.4120	-.0910	.1940	-.1930	-.4930	-.0900	-.0050	-.0270	-.0500
90.000	1.3130	1.2730	.6540	.1740	-.1870	-.2760	-.3600	.0760	.5150	-.5430	-.3700	-.4440	-.2690	-.1830	-.0990
120.000	1.3130		.6920	.2150	-.1520	-.2400	-.3340	.0440	.4690	.1320	-.1930	.1580	.0710	-.0460	-.2140
135.000	1.3130							-.1950		.2740		.1910		-.0570	
150.000	1.3130		.6950	.2160	-.1590	-.2410	-.3340	-.2920	.4020	.3630	-.1470	.2010	.0680	-.0960	-.2370

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7DT IA9 ORA + S3 + T9 EXTERNAL TANK (RUNT14)

MACH (1) = 1.101 BETAT (2) = -4.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3130			.1960	-.1670	-.2560	-.3460	-.3010	.4090	.4580	-.2050		.0920		-.2880
180.000	1.3130	1.2740	.6570	.1700	-.1680	-.2730	-.3690	-.3140	.3850	.4690	-.2740	.1790	.0120	-.1630	-.3350
270.000	1.3130	1.1230													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0930	-.0080	-.0790
30.000	-.0910	-.0140	-.0900
60.000	-.0550	-.0250	-.0880
90.000			-.1340
120.000	.1450	.1330	-.1360
135.000	.1450	.1530	-.1330
150.000	.1610	.1900	-.1160
165.000		-.0220	-.1180
180.000	.1370		

MACH (1) = 1.089 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3290	1.1440	.4630	.0090	-.3200	-.3940	-.4780	-.4090	.0750	.1190	-.0830	-.3290	-.0330	.0460	.0160
30.000	1.3290		.4740	.0010	-.3220	-.3890	-.4780	-.3910	.0600	.0910	-.2230	-.2000	-.0340	.0290	-.0660
60.000	1.3290		.5070	.0350	-.2960	-.3710	-.4590	-.1270	.2350	-.1530	-.4960	-.0370	-.0370	-.0280	-.0920
90.000	1.3290	1.2140	.5570	.0840	-.2640	-.3450	-.4370	.0460	.5420	-.5290	-.5190	-.4370	-.2160	-.1820	-.1040
120.000	1.3290		.6040	.1330	-.2250	-.3060	-.3970	.0840	.3670	.1940	-.1360	.1260	.0300	-.1110	-.2550
135.000	1.3290							.0790		.2990		.1380		-.1190	
150.000	1.3290		.6500	.1750	-.1960	-.2770	-.3700	.0070	.3030	.3580	-.2030	.1590	.0250	-.1520	-.2970
165.000	1.3290			.1810	-.1860	-.2730	-.3650	-.1290	.3250	.4480	-.2830		.0260		-.2970
180.000	1.3290	1.2980	.6670	.1760	-.1890	-.2660	-.3680	-.2850	.3400	.5060	-.2790	.1840	.0410	-.1930	-.3020
270.000	1.3290	1.2170													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0860	-.0190	-.0610
30.000	-.0870	-.0080	-.0610
60.000	-.0800	-.0320	-.1040
90.000			-.1530
120.000	.1190	.0380	-.1530
135.000	.1300	.0310	-.1980
150.000	.1410	.0000	-.1970

DATE 24 SEP 73 TABULATED PRESSURE DATA - IASA

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT14)

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1520	-.2140
180.000	.1610		

MACH (1) = 1.103 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3120	1.1250	.4550	.0030	-.3250	-.3930	-.4760	-.2590	.0720	.0980	-.1150	-.3390	-.0580	.0240	.0090
30.000	1.3120		.4260	-.0360	-.3490	-.4110	-.4910	-.0670	.0280	.0400	-.1390	-.2550	-.0690	.3280	-.0700
60.000	1.3120		.4250	-.0370	-.3420	-.4090	-.4000	-.0670	.0940	-.0770	-.5200	-.0720	-.0740	-.3160	-.0800
90.000	1.3120	1.1180	.4570	-.0140	-.3240	-.4020	-.0850	-.0310	.5430	-.5130	-.4960	-.2100	-.4600	-.2190	-.1400
120.000	1.3120		.4970	.0410	-.2930	-.3680	-.0060	.0320	.2090	.2100	-.1090	.0550	-.0040	-.1730	-.3040
135.000	1.3120							.0000		.3030		.0790		-.2000	
150.000	1.3120		.5780	.1110	-.2370	-.3230	-.4060	.0110	.2700	.3220	-.2590	.1090	-.0320	-.2350	-.3640
165.000	1.3120			.1410	-.2170	-.2960	-.3850	-.1000	.3320	.4050	-.3570		-.0200		-.3620
180.000	1.3120	1.2770	.6560	.1670	-.1940	-.2710	-.3660	-.3020	.3800	.4890	-.3560	.1840	.0160	-.1690	-.3360
270.000	1.3120	1.2760													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0920	-.0080	-.0860
30.000	-.0900	.0040	-.0800
60.000	-.0460	-.0100	-.0900
90.000			-.2000
120.000	.1040	-.0330	-.2010
135.000	.1040	-.0380	-.2110
150.000	.1100	-.0630	-.2100
165.000		-.2790	-.2280
180.000	.1360		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT14)

MACH (1) = 1.099 BETAT (5) = 8.260

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2740	1.0840	.4280	-.0160	-.3350	-.4090	-.4919	-.1480	.0200	.0050	-.1940	-.3210	-.1110	-.0580	-.0280
30.000	1.2740		.3670	-.0770	-.3790	-.4390	-.2910	-.0740	.0050	.0020	-.1930	-.2750	-.0880	-.0060	-.0520
60.000	1.2740		.3470	-.0960	-.3810	-.4480	-.1060	-.0780	-.0280	-.0520	-.1930	-.1570	-.1050	-.0540	-.0700
90.000	1.2740	1.0080	.3650	-.0860	-.3760	-.3450	-.0490	-.0650	.3080	-.4720	-.5150	-.1990	-.4290	-.2780	-.1620
120.000	1.2740		.4010	-.0380	-.3470	-.4220	-.0400	-.0380	.2200	.2760	-.1260	.0120	-.0560	-.2280	-.3730
135.000	1.2740							-.0580		.2720		.0360		-.2800	
150.000	1.2740		.5010	.0520	-.2890	-.3690	-.4560	-.0710	.2590	.2450	-.3400	.0560	-.1350	-.3440	-.4990
165.000	1.2740			.0980	-.2530	-.3300	-.4170	-.3590	.3240	.3200	-.4410		-.1200		-.5760
180.000	1.2740	1.2370	.6210	.1480	-.2020	-.2880	-.3860	-.3320	.3600	.4420	-.4400	-.0500	-.0540	-.2650	-.4910
270.000	1.2740	1.3130													

X/LT	.7449	.8526	.9290
PHI			
.000	-.1100	-.0330	-.1100
30.000	-.1100	.0080	-.1110
60.000	-.0480	-.0040	-.1100
90.000			-.1950
120.000	.0520	-.0590	-.2110
135.000	.0320	-.0580	-.2640
150.000	.0140	-.2220	-.2860
165.000		-.3090	-.2880
180.000	-.0150		

MACH (2) = 1.248 BETAT (1) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3550	1.1760	.4900	.0540	-.2390	-.3010	-.3870	-.3490	-.0440	.0880	-.0470	-.2410	-.1770	-.1100	-.0210
30.000	1.3550		.5880	.1420	-.1760	-.2430	-.3380	-.2970	-.0430	-.0890	-.3070	-.2940	-.0620	-.0990	-.1130
60.000	1.3550		.7110	.2470	-.0940	-.1660	-.2650	-.2190	.1860	-.1170	-.5810	-.1520	-.0260	-.0020	-.0440
90.000	1.3550	1.3910	.8070	.3330	-.0240	-.1080	-.2000	-.1120	.5520	-.3370	-.6750	-.2860	-.3230	-.1690	-.0800
120.000	1.3550		.8300	.3610	.0000	-.0850	-.1800	-.1410	.4150	.1680	-.1500	.1760	.2150	.0870	-.0690
135.000	1.3550							-.1570		.3080		.1470		.1320	
150.000	1.3550		.7840	.3160	-.0400	-.1220	-.2135	-.1770	.2310	.4450	.0590	.0150	.1900	.1050	-.0690
165.000	1.3550			.2740	-.0790	-.1560	-.2420	-.2060	.2620	.5400	.0460		.0240		-.1660
180.000	1.3550	1.3110	.6780	.2160	-.1160	-.1960	-.2800	-.2410	.2780	.5390	-.0600	-.2600	.1520	-.0320	-.2900
270.000	1.3550	1.0850													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT14)

AMES 11-707 IA9 GEA + S3 + T9 EXTERNAL TANK

MACH (2) = 1.248 BETAT (1) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0570	-.0440	-.0480
30.000	-.0700	-.0360	-.0530
60.000	-.0630	-.0110	.0060
90.000			-.1940
120.000	.0400	.2900	.0010
135.000	-.0270	.3430	.0450
150.000	-.1050	.3830	.0490
165.000		.3840	.0770
180.000	-.3880		

MACH (2) = 1.244 BETAT (2) = -4.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1096	.1744	.1905	.2121	.2536	.2874	.3412	.3990	.4489	.5027	.5565	.6372
PHI															
.000	1.3990	1.2090	.5170	.0720	-.2190	-.2870	-.3710	-.3260	-.0160	.1290	.0050	-.2090	-.2310	-.0630	.0220
30.000	1.3990		.5670	.1150	-.1930	-.2570	-.3530	-.3040	-.0170	.0390	-.1640	-.2790	-.0620	-.0890	-.0600
60.000	1.3990		.6400	.1820	-.1430	-.2230	-.3110	-.2680	.1610	-.1000	-.5590	-.1230	-.0030	-.0250	-.0760
90.000	1.3990	1.3350	.7100	.2460	-.0960	-.1830	-.2680	-.1680	.5450	-.3370	-.5900	-.3980	-.0460	-.3000	-.1100
120.000	1.3990		.7510	.2850	-.0640	-.1510	-.2390	-.2020	.3540	.2350	-.1290	.0570	.1520	.0770	-.1330
135.000	1.3990							-.2020		.3880		.0900		.0790	
150.000	1.3990		.7530	.2870	-.0680	-.1540	-.2350	-.2000	.3050	.4610	.0030	-.0570	.1710	.0490	-.1330
165.000	1.3990			.2700	-.0810	-.1620	-.2480	-.2090	.2740	.5630	-.0440		.2150		-.1790
180.000	1.3990	1.3360	.7110	.2390	-.0990	-.1790	-.2690	-.2290	.2200	.6060	-.1250	-.1740	.2100	-.0170	-.2110
270.000	1.3990	1.2000													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0480	-.0530	-.0500
30.000	-.0380	-.0420	-.0470
60.000	-.0370	-.0070	-.0090
90.000			-.0770
120.000	-.0370	.1960	-.0760
135.000	-.0890	.2200	-.0550
150.000	-.1580	.2220	-.0560
165.000		.1130	-.0550
180.000	-.2920		

DATE 24 SEP 75 TABULATED PRESSURE DATA - 1A9A

AMES 11-7D7 1A9 ORA + S3 + T9 EXTERNAL TANK (RBNT14)

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1398	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4050	1.2140	.5230	.0790	-.2200	-.2820	-.3660	-.3200	-.0280	.1400	.0320	-.1950	-.2540	-.0520	[illegible]
30.000	1.4050		.5310	.0620	-.2190	-.2800	-.3650	-.3170	.0200	.0850	-.0460	-.2650	-.0990	-.0830	-.0340
60.000	1.4050		.5650	.1110	-.1960	-.2600	-.3460	-.3050	.1550	-.0620	-.5070	-.0960	-.0210	-.0390	-.0570
90.000	1.4050	1.2870	.6150	.1500	-.1650	-.2440	-.3200	-.2810	.5590	-.3230	-.5140	-.4230	-.1490	-.3590	-.1350
120.000	1.4050		.6600	.2000	-.1290	-.2080	-.2910	-.2530	.2320	.2920	-.1040	-.0190	.1500	.0160	-.1830
135.000	1.4050							-.2430		.3470		.0180		.0100	
150.000	1.4050		.7090	.2480	-.1020	-.1830	-.2670	-.2290	.2500	.3660	-.0150	-.0360	.0860	-.0100	-.1830
165.000	1.4050			.2510	-.0970	-.1760	-.2610	-.2230	.2530	.3960	-.0660		.1280		-.1730
180.000	1.4050	1.3650	.7200	.2460	-.0950	-.1740	-.2630	-.2220	.2600	.4380	-.0690	-.0530	.1310	-.0170	-.1810
270.000	1.4050	1.2850													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0250	-.0390	-.0330
30.000	-.0250	-.0270	-.0200
60.000	-.0260	-.0250	-.0380
90.000			-.0790
120.000	-.0430	.1170	-.0600
135.000	-.1050	.1210	-.1450
150.000	-.1870	.1020	-.1390
165.000		-.0030	-.1710
180.000	-.2050		

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1058	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3990	1.2040	.5160	.0740	-.2240	-.2870	-.3700	-.3280	-.0270	.1250	.0050	-.2060	-.2180	-.0880	.0120
30.000	1.3990		.4840	.0440	-.2410	-.3010	-.3830	-.3360	.0340	.0100	.0060	-.2480	-.1580	-.0720	-.0340
60.000	1.3990		.4830	.0440	-.2380	-.3100	-.3800	-.3340	.0220	-.0170	-.4500	-.0820	-.0540	-.0860	-.0280
90.000	1.3990	1.1980	.5120	.0810	-.2240	-.3020	-.3740	-.2290	.5640	-.3270	-.3990	-.4420	-.1090	-.3150	-.1250
120.000	1.3990		.5630	.1130	-.1910	-.2670	-.3450	-.2980	.1280	.3430	-.0740	-.0590	.1180	-.0190	-.2440
135.000	1.3990							-.2900		.2690		-.0080		-.0900	
150.000	1.3990		.6420	.1870	-.1460	-.2230	-.3050	-.2660	.1790	.3190	-.0870	-.0810	.1190	-.0850	-.2450
165.000	1.3990			.2160	-.1200	-.2030	-.2830	-.2460	.1710	.5170	-.1860		.1720		-.2360
180.000	1.3990	1.3820	.7180	.2390	-.0990	-.1790	-.2680	-.2250	.2330	.6050	-.1860	-.1730	.2120	-.0190	-.2180
270.000	1.3990	1.3990													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 77 TABULATED PRESSURE DATA - IA9A (RBNT14)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0410	-.0310	-.0500
30.000	-.0410	-.0420	-.0360
60.000	-.0270	-.0290	-.0530
90.000			-.1140
120.000	-.0800	-.0080	-.1150
135.000	-.0800	-.0100	-.2050
150.000	-.1190	-.0100	-.2040
165.000		-.1840	-.2260
180.000	-.2970		

MACH (2) = 1.250 BETAT (5) = 8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3540	1.1480	.4720	.0450	-.2420	-.3070	-.3900	-.3550	-.0220	.0520	-.0700	-.2490	-.1730	-.1060	-.0280
30.000	1.3540		.4130	-.0050	-.2800	-.3380	-.4130	-.3660	.0030	.0460	-.1210	-.2540	-.1950	-.0830	-.0280
60.000	1.3540		.3940	-.0220	-.2860	-.3480	-.4140	-.1150	-.0460	.0170	-.3660	-.0960	-.1110	-.0930	-.0240
90.000	1.3540	1.0780	.4150	-.0150	-.2820	-.3510	-.3900	-.0670	.3170	-.2940	-.3170	-.3940	-.1110	-.2940	-.1280
120.000	1.3540		.4590	.0330	-.2540	-.3260	-.3930	-.0170	.0440	.2400	.0180	-.1540	.0880	-.0880	-.2830
135.000	1.3540							-.0260		.3290		-.1550		-.0960	
150.000	1.3540		.5640	.1250	-.1910	-.2700	-.3480	-.3070	.1260	.3290	-.1880	-.2310	.0540	-.1460	-.3710
165.000	1.3540			.1780	-.1540	-.2320	-.3110	-.2770	.1750	.4240	-.2760		.1170		-.4040
180.000	1.3540	1.3250	.6900	.2310	-.1130	-.1890	-.2720	-.2310	.1670	.5510	-.2760	-.2770	.1550	-.0330	-.2810
270.000	1.3540	1.3900													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0550	-.0550	-.0660
30.000	-.0550	-.0400	-.0600
60.000	.0110	-.0230	-.0490
90.000			-.1340
120.000	-.0190	-.0210	-.1860
135.000	-.0890	-.0240	-.2230
150.000	-.1860	-.1660	-.2695
165.000		-.2980	-.2730
180.000	-.3830		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT19) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .900
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2860	1.1480	.4870	.0260	-.3030	-.3770	-.4670	-.4060	.0740	.0560	-.1500	-.3110	-.1250	-.0630	-.0310
30.000	1.2860		.5630	.1050	-.2350	-.3110	-.4100	-.3400	.0870	-.0570	-.2940	-.1080	-.0610	-.0640	-.1110
60.000	1.2860		.6940	.2130	-.1520	-.2410	-.3380	.0250	.2160	-.1710	-.4730	-.0650	.0320	-.0100	-.0800
90.000	1.2860	1.3260	.7390	.2730	-.1050	-.1960	-.2980	.2730	.5240	-.5190	-.4580	-.3700	-.4340	-.2020	-.1170
120.000	1.2860		.7540	.2730	-.1080	-.1940	-.2930	-.0160	.3810	.0210	-.2780	.1840	.1220	.0230	-.1480
135.000	1.2860							-.1960		.1810		.1860		.0060	
150.000	1.2860		.6850	.2140	-.1620	-.2440	-.3370	-.2840	.3180	.3250	-.1010	.1430	.1130	-.0650	-.1830
165.000	1.2860			.1610	-.2070	-.2810	-.3720	-.3260	.3240	.4350	-.1180		.0320		-.2760
180.000	1.2860	1.2120	.5750	.1010	-.2400	-.3210	-.4100	-.3540	.3160	.4330	-.1190	-.1480	-.0420	-.2270	-.4130
270.000	1.2860	1.0240													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0980	-.0480	-.0800
30.000	-.1000	-.0220	-.0810
60.000	-.0290	.0250	-.0110
90.000			-.1190
120.000	.1900	.2490	.0040
135.000	.2020	.2920	.0670
150.000	.2080	.3340	.0480
165.000		.3120	.0490
180.000	.0360		

MACH (1) = 1.101 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3250	1.1810	.5090	.0420	-.2940	-.3690	-.4560	-.3950	.1100	.1220	-.0930	-.3170	-.0790	.0230	.0230
30.000	1.3250		.5570	.0770	-.2670	-.3390	-.4320	-.3660	.1240	.0480	-.2580	-.1480	-.0660	-.0010	-.0930
60.000	1.3250		.6170	.1350	-.2170	-.2980	-.3950	-.1330	.2550	-.1310	-.4740	-.0560	.0170	-.0050	-.0340
90.000	1.3250	1.2860	.6630	.1790	-.1860	-.2730	-.3720	.0940	.5310	-.5180	-.4470	-.2100	-.2680	-.1920	-.0980
120.000	1.3250		.6700	.1910	-.1760	-.2560	-.3530	-.1270	.4320	.0810	-.2790	.1570	.0890	-.0200	-.1940
135.000	1.3250							-.2570		.2440		.1790		-.0360	
150.000	1.3250		.6520	.1720	-.1960	-.2740	-.3660	-.3180	.3450	.3550	-.1690	.1590	.0900	-.0810	-.2170

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBMT19)

MACH (1) = 1.101 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3250			.1500	-.2100	-.2890	-.3760	-.3310	.3480	.4440	-.2060		.0630		-.2610
180.000	1.3250	1.2500	.6030	.1200	-.2310	-.3050	-.3990	-.0940	.2940	.4860	-.2390	.0860	.0380	-.1410	-.3120
270.000	1.3250	1.1360													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0920	-.0260	-.0650
30.000	-.0940	-.0230	-.0690
60.000	-.0400	-.0300	-.0890
90.000			-.1310
120.000	.1510	.1610	-.0880
135.000	.1510	.1810	-.0560
150.000	.1860	.1850	-.0580
165.000		.0160	-.1020
180.000	.1430		

MACH (1) = 1.103 BETAT (3) = .030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3380	1.1900	.5160	.0490	-.2890	-.3620	-.4430	-.3900	.1220	.1350	-.0700	-.3040	-.0430	.0550	.0330
30.000	1.3380		.5200	.0420	-.2930	-.3630	-.4500	-.3840	.0970	.1090	-.1830	-.2080	-.0440	.0450	-.0520
60.000	1.3380		.5350	.0020	-.2750	-.3490	-.4380	-.1440	.2920	-.0880	-.4720	-.0290	-.0150	.0050	-.0400
90.000	1.3380	1.2200	.5620	.0880	-.2580	-.3420	-.4290	.0310	.5390	-.5040	-.3770	-.1280	-.2760	-.2100	-.0970
120.000	1.3380		.5810	.1130	-.2410	-.3170	-.4050	.0580	.3740	.1350	-.2580	.1440	.0570	-.0870	-.2900
135.000	1.3380							.0440		.2780		.1260		-.1000	
150.000	1.3380		.6070	.1330	-.2290	-.3040	-.3910	.0460	.2300	.3360	-.1960	.1130	.0540	-.1220	-.2640
165.000	1.3380			.1330	-.2230	-.3040	-.3880	.0540	.2300	.3900	-.2470		.0480		-.2750
180.000	1.3380	1.2640	.6170	.1290	-.2250	-.3030	-.3910	.0420	.2250	.4590	-.2990	.0920	.0630	-.1170	-.2890
270.000	1.3380	1.2260													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0720	-.0420	-.0700
30.000	-.0720	-.0330	-.0360
60.000	-.0510	-.0380	-.0990
90.000			-.1500
120.000	.1370	.0560	-.1500
135.000	.1420	.0470	-.1490
150.000	.1550	.0100	-.1650

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CBA + S3 + T9 EXTERNAL TANK (RBMT19)

MACH (1) = 1.105 BETAT (3) = .090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000	-.1460	-.1690	
180.000	.1710		

MACH (1) = 1.097 BETAT (4) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3240	1.1710	.5060	.0430	-.2680	-.3640	-.4540	-.3920	.1070	.1190	-.0960	-.3160	-.0900	.0140	.0250
30.000	1.3240		.4640	.0020	-.3250	-.3880	-.4750	-.0830	.0660	.0590	-.0970	-.2470	-.0880	.0180	-.0510
60.000	1.3240		.4490	-.0130	-.3250	-.3930	-.4750	-.0460	.1220	-.0150	-.4820	-.0830	-.0760	.0100	-.0490
90.000	1.3240	1.1290	.4640	-.0070	-.3200	-.3930	-.1640	-.0200	.5890	-.4930	-.3390	-.0250	-.2890	-.2400	-.1180
120.000	1.3240		.4860	.0290	-.3020	-.3740	-.0500	.0180	.1620	.1940	-.1450	.0120	.0220	-.1410	-.2870
135.000	1.3240							.0330		.2870		.0350		-.1650	
150.000	1.3240		.5440	.0840	-.2660	-.3440	-.3020	.0170	.1810	.3000	-.2500	.0860	-.0070	-.2010	-.3280
165.000	1.3240			.1030	-.2470	-.3250	-.4100	-.0100	.2320	.4010	-.3490		.0030		-.3530
180.000	1.3240	1.2520	.6110	.1240	-.2290	-.3040	-.3960	-.2250	.2860	.4850	-.3500	.1200	.0420	-.1490	-.3050
270.000	1.3240	1.2890													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0950	-.0170	-.0630
30.000	-.0980	-.0010	-.0830
60.000	-.0480	-.0110	-.0760
90.000			-.1720
120.000	.1040	-.0150	-.1720
135.000	.1110	-.0140	-.1880
150.000	.1170	-.0570	-.1870
165.000		-.2430	-.2140
180.000	.1440		

DATE 24 SEP 75 TABULATED PRESSURE DATA - 1A9A

AMES 11-707 1A9 C2A + S3 + T9 EXTERNAL TANK (RBNT15)

MACH (1) = 1.100 BETAT (5) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2850	1.1270	.4730	.0190	-.3080	-.3840	-.4700	-.4040	.0470	.0330	-.1670	-.2910	-.1310	-.0660	-.0450
30.000	1.2850		.3990	-.0500	-.3630	-.4230	-.5080	-.0720	.0300	.0540	-.1680	-.2640	-.0950	-.0100	-.0680
60.000	1.2850		.3650	-.0780	-.3720	-.4410	-.1430	-.0690	-.0050	.0420	-.1760	-.1530	-.1080	-.0180	-.0630
90.000	1.2850	1.0160	.3720	-.0790	-.3710	-.4410	-.0710	-.0630	.3840	-.4520	-.4590	-.0900	-.2920	-.2510	-.1690
120.000	1.2850		.3960	-.0420	-.3540	-.4250	-.0230	-.0230	.1000	.1790	-.1220	.0050	-.0320	-.1970	-.3600
135.000	1.2850							-.0410		.2680		.0350		-.2460	
150.000	1.2850		.4770	.0290	-.3060	-.3910	-.3160	-.0610	.1750	.2420	-.3340	.0510	-.1070	-.3210	-.4630
165.000	1.2850			.0700	-.2780	-.3560	-.4340	-.1290	.2680	.3180	-.4340		-.1030		-.5430
180.000	1.2850	1.2190	.5820	.1130	-.2370	-.3170	-.4110	-.3610	.3270	.4340	-.4330	-.1720	-.0350	-.2520	-.4320
270.000	1.2850	1.3270													

X/LT	.7449	.8526	.9290
PHI			
.000	-.1090	-.0380	-.0930
30.000	-.1090	.0040	-.1050
60.000	-.0500	-.0080	-.0960
90.000			-.1840
120.000	.0740	-.0430	-.1840
135.000	.0170	-.0340	-.2350
150.000	.0010	-.2260	-.2660
165.000		-.2630	-.2700
180.000	.0150		

MACH (2) = 1.245 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3670	1.2240	.5440	.1010	-.2050	-.2740	-.3570	-.3190	-.1600	.1070	-.0330	-.2180	-.1730	-.1140	-.0410
30.000	1.3670		.6430	.1870	-.1370	-.2120	-.3080	-.2640	.0010	-.0450	-.2390	-.2690	-.0530	-.0780	-.1130
60.000	1.3670		.7530	.2830	-.0630	-.1470	-.2430	-.1980	.2350	-.0470	-.5240	-.1050	.0050	.0030	-.0370
90.000	1.3670	1.4030	.8170	.3420	-.0140	-.1080	-.1990	-.1210	.5540	-.3240	-.6610	-.2180	-.3080	-.3860	-.1320
120.000	1.3670		.8090	.3430	-.0200	-.1090	-.2000	-.1550	.3540	.1020	-.2200	.1590	.1980	.0940	-.0430
135.000	1.3670							-.1840		.2500		.1030		.0890	
150.000	1.3670		.7430	.2810	-.0730	-.1550	-.2430	-.2070	.1440	.4130	.0410	-.0650	.1860	.0950	-.0800
165.000	1.3670			.2310	-.1100	-.1920	-.2730	-.2400	.1930	.5240	.0350		.0500		-.1510
180.000	1.3670	1.2880	.6360	.1820	-.1450	-.2280	-.3000	-.2690	.2190	.5530	.0340	-.2700	.0140	-.0130	-.2770
270.000	1.3670	1.0990													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IASA

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT19)

MACH (2) = 1.245 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0800	-.0400	-.0460
30.000	-.0800	-.0310	-.0140
60.000	-.0390	-.0380	-.0440
90.000			-.1910
120.000	.0490	.3130	-.0080
135.000	.0290	.3020	.0920
150.000	-.0880	.4030	.0910
165.000		.4160	.0910
180.000	-.3780		

MACH (2) = 1.249 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.9027	.5565	.6372
PHI															
.000	1.4050	1.2560	.5660	.1160	-.1870	-.2570	-.3430	-.3020	-.1660	.1550	.0260	-.1830	-.2260	-.0810	.0070
30.000	1.4050		.6140	.1580	-.1590	-.2260	-.3270	-.2810	.0160	.0640	-.1220	-.2430	-.0540	-.0670	-.0680
60.000	1.4050		.6720	.2140	-.1160	-.2000	-.2890	-.2480	.2030	-.0240	-.4970	-.0860	.0260	-.0130	-.0680
90.000	1.4050	1.3640	.7190	.2530	-.0850	-.1750	-.2590	-.1950	.5490	-.3160	-.6610	-.3370	-.1520	-.3230	-.1560
120.000	1.4050		.7260	.2670	-.0770	-.1640	-.2490	-.2090	.3590	.1770	-.1890	.0330	.1020	.0860	-.1220
135.000	1.4050							-.2180		.3400		-.0470		.0910	
150.000	1.4050		.7100	.2500	-.0960	-.1820	-.2620	-.2230	.2630	.4390	.0060	-.1110	.1170	.0910	-.1180
165.000	1.4050			.2260	-.1130	-.1940	-.2740	-.2320	.2630	.5120	-.0260		.0370		-.1470
180.000	1.4050	1.3250	.6630	.1950	-.1300	-.2100	-.2930	-.2490	.1480	.5620	-.0600	-.1580	-.0410	.0200	-.1830
270.000	1.4050	1.2080													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0330	-.0450	-.0500
30.000	-.0320	-.0300	-.0220
60.000	-.0320	-.0300	-.0240
90.000			-.1180
120.000	-.0090	.2260	-.0230
135.000	-.0790	.2540	-.0090
150.000	-.1240	.2600	-.0090
165.000		.1400	.0460
180.000	-.2960		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK (RBMT15)

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4200	1.2620	.5710	.1170	-.1940	-.2600	-.3440	-.2970	-.0980	.1640	.0440	-.1720	-.2380	-.0520	.0080
30.000	1.4200		.5760	.1170	-.1940	-.2600	-.3450	-.2980	.0380	.0840	-.0080	-.2300	-.0940	-.0650	-.0330
60.000	1.4200		.5940	.1350	-.1780	-.2520	-.3350	-.2900	.1260	.0090	-.4550	-.0670	.0100	-.0550	-.0460
90.000	1.4200	1.3000	.6210	.1570	-.1620	-.2400	-.3170	-.2780	.5590	-.3100	-.5990	-.3740	-.0540	-.2940	-.1580
120.000	1.4200		.6400	.1800	-.1420	-.2210	-.3020	-.2620	.2260	.2290	-.1700	-.0920	.0980	.0310	-.1760
135.000	1.4200							-.2620		.3470		-.0580		.0310	
150.000	1.4200		.6630	.2050	-.1300	-.2110	-.2910	-.2530	.1930	.3320	-.0130	-.0750	.0160	.0150	-.1640
165.000	1.4200			.2040	-.1280	-.2060	-.2880	-.2510	.1920	.3490	-.0570		-.0290		-.1530
180.000	1.4200	1.3410	.6700	.1980	-.1280	-.2060	-.2890	-.2500	.2030	.3440	-.0580	-.0180	-.0210	.0190	-.1460
270.000	1.4200	1.2990													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0090	-.0370	-.0420
30.000	-.0080	-.0250	-.0150
60.000	-.0290	-.0170	-.0380
90.000			-.0930
120.000	-.0690	.1350	-.0930
135.000	-.0990	.1280	-.1140
150.000	-.1680	.1050	-.1030
165.000		-.0140	-.1330
180.000	-.1880		

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4020	1.2380	.5590	.1120	-.1980	-.2630	-.3470	-.2990	-.1000	.1440	.0160	-.1900	-.2110	-.0700	.0040
30.000	1.4020		.5160	.0750	-.2240	-.2840	-.3670	-.3220	.0510	.0370	.0170	-.2270	-.1630	-.0680	-.0430
60.000	1.4020		.5040	.0600	-.2280	-.2970	-.3710	-.3260	.0380	.0480	-.3990	-.0560	-.0270	-.0810	-.0220
90.000	1.4020	1.2020	.5170	.0670	-.2200	-.2970	-.3710	-.1410	.5530	-.3170	-.4730	-.4120	-.0320	-.2660	-.1280
120.000	1.4020		.5400	.0930	-.2020	-.2780	-.3530	-.1440	.0970	.2780	-.1140	-.0890	.0370	-.0030	-.2170
135.000	1.4020							-.2100		.2070		-.0710		-.0270	
150.000	1.4020		.5990	.1490	-.1720	-.2480	-.3260	-.2820	.1550	.2700	-.1140	-.1480	-.0170	-.0550	-.2350
165.000	1.4020			.1720	-.1550	-.2310	-.3090	-.2690	.1610	.4250	-.1690		.0800		-.2280
180.000	1.4020	1.3270	.6630	.1900	-.1380	-.2130	-.2970	-.2510	.2230	.5550	-.1700	-.1790	.0700	.0080	-.1930
270.000	1.4020	1.3990													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT15)

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0360	-.0490	-.0520
30.000	-.0350	-.0410	-.0520
60.000	-.0220	-.0380	-.0500
90.000			-.0960
120.000	-.0560	.0170	-.0960
135.000	-.0360	.0200	-.1730
150.000	-.0990	.0150	-.1720
165.000		-.1890	-.2020
180.000	-.2780		

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3990	.4489	.5027	.5565	.6372
PHI															
.000	1.3660	1.2090	.5310	.0900	-.2130	-.2810	-.3630	-.3290	-.0800	.0810	-.0550	-.2290	-.1610	-.1180	-.0390
30.000	1.3660		.4550	.0250	-.2610	-.3260	-.4000	-.3560	.0320	.0550	-.1220	-.2620	-.1970	-.0820	-.0390
60.000	1.3660		.4200	-.0110	-.2800	-.3430	-.4080	-.2470	-.0190	.1150	-.3220	-.0660	-.0920	-.0840	-.0010
90.000	1.3660	1.0870	.4230	-.0110	-.2810	-.3480	-.4100	-.0620	.4580	-.2900	-.3200	-.3660	-.0080	-.2410	-.0990
120.000	1.3660		.4450	.0200	-.2660	-.3330	-.3990	-.0310	.0390	.2750	-.0320	-.1890	.0390	-.0430	-.2530
135.000	1.3660							-.0400		.3360		-.1790		-.0700	
150.000	1.3660		.5230	.0830	-.2240	-.2970	-.3710	-.3110	.1200	.3230	-.1670	-.2550	.0580	-.1310	-.3420
165.000	1.3660			.1260	-.1900	-.2670	-.3430	-.3040	.1820	.4150	-.2480		.1040		-.4010
180.000	1.3660	1.2890	.6300	.1720	-.1560	-.2300	-.3100	-.2680	.2380	.5270	-.2520	-.2800	.0520	-.0270	-.2780
270.000	1.3660	1.4020													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0550	-.0490	-.0530
30.000	-.0550	-.0400	-.0540
60.000	.0180	-.0360	-.0390
90.000			-.1150
120.000	.0180	.0130	-.1150
135.000	-.0550	.0030	-.1950
150.000	-.1380	-.1370	-.2420
165.000		-.2710	-.2440
180.000	-.3750		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT18) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2840	1.1810	.5270	.0690	-.2760	-.3530	-.4460	-.3840	.0990	.0650	-.1360	-.2810	-.1400	-.0900	-.0320
30.000	1.2840		.6320	.1490	-.2050	-.2830	-.3830	-.3120	.1090	-.0280	-.3220	-.0750	-.0540	-.0790	-.0980
60.000	1.2840		.7270	.2450	-.1260	-.2110	-.3180	.0460	.2590	-.1250	-.5540	-.0190	.0300	.0000	-.0380
90.000	1.2840	1.3310	.7710	.2790	-.0980	-.1850	-.2960	.2400	.5220	-.4990	-.4250	-.0760	-.1010	-.1550	-.0970
120.000	1.2840		.7340	.2540	-.1250	-.2100	-.3050	-.0280	.3270	-.0350	-.3470	.1870	.1440	.0380	-.1340
135.000	1.2840							-.2290		.1320		.1980		.0210	
150.000	1.2840		.6420	.1760	-.1930	-.2770	-.3650	-.3180	.2720	.2680	-.1200	.1450	.1270	-.0470	-.1710
165.000	1.2840			.1190	-.2440	-.3130	-.3980	-.3540	.2730	.4170	-.1290		.0510		-.2650
180.000	1.2840	1.1760	.5330	.0600	-.2720	-.3500	-.4390	-.1660	.2400	.4150	-.2070	-.2240	-.0270	-.2140	-.3950
270.000	1.2840	1.0190													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0940	-.0550	-.0870
30.000	-.0930	-.0150	-.0850
60.000	-.0050	.0240	-.0270
90.000			-.1410
120.000	.1980	.2820	.0710
135.000	.1980	.3220	.0860
150.000	.2140	.3640	.0680
165.000		.3450	.0670
180.000	.0420		

MACH (1) = 1.098 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3230	1.2170	.5500	.0800	-.2610	-.3360	-.4300	-.3680	.1430	.1350	-.0790	-.2950	-.0980	.0120	.0900
30.000	1.3230		.6030	.1210	-.2290	-.3040	-.4050	-.3360	.1560	.0710	-.2400	-.1150	-.0590	-.0010	-.0360
60.000	1.3230		.6500	.1660	-.1890	-.2720	-.3750	-.1180	.2940	-.0770	-.5450	-.0070	.0170	.0000	-.0090
90.000	1.3230	1.2900	.6730	.1830	-.1750	-.2670	-.3660	.1050	.5360	-.4980	-.4780	-.0220	-.0640	-.1400	-.0990
120.000	1.3230		.6520	.1760	-.1870	-.2720	-.3640	-.2360	.3720	.0260	-.3360	.1580	.1170	-.0020	-.1780
135.000	1.3230							-.3160		.1930		.1840		-.0110	
150.000	1.3230		.6090	.1400	-.2220	-.3020	-.3890	-.3390	.2970	.3320	-.1770	.1340	.1150	-.0560	-.1930

DATE 24 SEP 73 TAFULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT16)

MACH (1) = 9.090 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
185.000	1.3230			.1130	-.2400	-.3200	-.4030	-.2360	.2720	.4320	-.2070		.0840		-.2230
180.000	1.3230	1.2140	.3550	.0790	-.2610	-.3360	-.4250	-.0110	.2040	.4700	-.2490	-.1340	.0970	-.1230	-.2810
270.000	1.3230	1.1320													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0870	-.0400	-.0340
30.000	-.0830	-.0220	-.0550
60.000	-.0300	-.0090	-.1000
90.000			-.1420
120.000	.1470	.1860	.0650
135.000	.1690	.2110	.0290
150.000	.1900	.2230	.0280
165.000		.0780	.0000
180.000	.1420		

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3410	1.2270	.5580	.0690	-.2570	-.3360	-.4300	-.3670	.1440	.1470	-.0600	-.2820	-.0520	.0430	.0380
30.000	1.3410		.5590	.0840	-.2650	-.3380	-.4330	-.3670	.1250	.1180	-.1390	-.1920	-.0540	.0400	-.0320
60.000	1.3410		.5610	.0880	-.2570	-.3350	-.4270	-.0720	.2840	-.0320	-.4990	-.0060	-.0140	.0090	-.0180
90.000	1.3410	1.2280	.5690	.0920	-.2530	-.3380	-.4260	.0310	.5660	-.4930	-.4110	.0080	-.0700	-.1440	-.0990
120.000	1.3410		.5620	.0960	-.2510	-.3310	-.4180	.0110	.3820	.0720	-.3270	.1590	.0710	-.0680	-.2330
135.000	1.3410							.0230		.2390		.1600		-.0750	
150.000	1.3410		.5690	.1020	-.2550	-.3310	-.4150	.0300	.1730	.3130	-.1960	.0990	.0620	-.1010	-.2330
165.000	1.3410			.0950	-.2560	-.3330	-.4130	.0390	.1700	.3360	-.2140		.0610		-.2460
180.000	1.3410	1.2340	.5730	.0920	-.2580	-.3330	-.3640	.0460	.1730	.3670	-.2000	-.0760	.0690	-.0860	-.2440
270.000	1.3410	1.2270													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0630	-.0530	-.0700
30.000	-.0480	-.0380	-.0360
60.000	-.0440	-.0380	-.0950
90.000			-.1540
120.000	.1250	.0640	-.1320
135.000	.1220	.0660	-.1140
150.000	.1440	.0140	-.1350

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBMT16)

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1610	-.1700
180.000	.1570		

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3250	1.2030	.5420	.0800	-.2610	-.3390	-.4310	-.3720	.1400	.1330	-.0780	-.2930	-.1050	-.0020	.0340
30.000	1.3250		.4970	.0340	-.3040	-.3710	-.4590	-.1990	.1030	.0740	-.1460	-.2450	-.1040	.0070	-.0310
60.000	1.3250		.4710	.0040	-.3170	-.3840	-.4690	-.0360	.1480	.0310	-.4370	-.0720	-.0750	.0080	-.0260
90.000	1.3250	1.1280	.4700	-.0020	-.3180	-.3920	-.3060	-.0140	.6100	-.4830	-.2520	-.0080	-.0880	-.1470	-.1190
120.000	1.3250		.4700	.0160	-.3100	-.3840	-.0970	.0060	.1540	.1550	-.2620	.0160	.0360	-.1130	-.2660
135.000	1.3250							.0160		.2130		.0270		-.1310	
150.000	1.3250		.5140	.0570	-.2910	-.3650	-.0820	.0220	.1520	.2640	-.2360	-.0020	.0120	-.1670	-.3050
165.000	1.3250			.0700	-.2760	-.3530	-.3830	-.0020	.1490	.3700	-.3390		.0280		-.3270
180.000	1.3250	1.2230	.5670	.0870	-.2610	-.3350	-.4260	-.0320	.2010	.4770	-.3390	-.1610	.0650	-.1260	-.2780
270.000	1.3250	1.2910													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0810	-.0350	-.0460
30.000	-.0810	-.0070	-.0810
60.000	-.0360	-.0030	-.0800
90.000			-.1550
120.000	.1060	-.0010	-.1540
135.000	.1060	-.0170	-.1740
150.000	.1170	-.0690	-.1950
165.000		-.2500	-.2140
180.000	.1450		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT1B)

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2890	1.1670	.5220	.0680	-.2770	-.3550	-.4440	-.3880	.0860	.0590	-.1410	-.2460	-.1520	-.0940	-.0380
30.000	1.2890		.4350	-.0180	-.3430	-.4080	-.4930	-.0670	.0810	.0760	-.1400	-.2560	-.1210	-.0280	-.0440
60.000	1.2890		.3840	-.0670	-.3660	-.4320	-.2070	-.0620	.0170	.0980	-.3140	-.1670	-.0940	-.0220	-.0440
90.000	1.2890	1.0230	.3780	-.0800	-.3700	-.4410	-.0900	-.0590	.5570	-.4390	-.1040	-.2180	-.1120	-.1370	-.1900
120.000	1.2890		.3820	-.0600	-.3630	-.4300	-.0440	-.0350	.0680	.1500	-.1080	-.0470	-.0050	-.1600	-.3370
135.000	1.2890							-.0270		.2960		.0280		-.1910	
150.000	1.2890		.4430	-.0020	-.3300	-.4060	-.0690	-.0430	.1030	.2360	-.3230	.0210	-.0710	-.2660	-.4100
165.000	1.2890			.0250	-.3090	-.3820	-.4160	-.0650	.1690	.3130	-.4260		-.0730		-.4860
180.000	1.2890	1.1840	.5350	.0650	-.2740	-.3480	-.4370	-.2050	.2490	.4260	-.4270	-.2200	-.0140	-.2260	-.4030
270.000	1.2890	1.3310													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0690	-.0410	-.0970
30.000	-.0910	-.0020	-.0960
60.000	-.0270	.0000	-.0810
90.000			-.1620
120.000	.0440	-.0020	-.1640
135.000	.0590	-.0210	-.2270
150.000	.0070	-.2160	-.2610
165.000		-.2670	-.2630
180.000	.0300		

MACH (2) = 1.247 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3690	1.2590	.5840	.1430	-.1800	-.2480	-.3400	-.3000	-.1730	.1160	-.0160	-.1980	-.1560	-.1160	-.0540
30.000	1.3690		.6870	.2240	-.1050	-.1820	-.2870	-.2390	.0390	-.0140	-.1890	-.2280	-.0370	-.0640	-.0980
60.000	1.3690		.7820	.3110	-.0390	-.1290	-.2240	-.1800	.2760	-.0050	-.4760	-.0870	.0170	.0140	-.0100
90.000	1.3690	1.4070	.8190	.3460	-.0090	-.1060	-.2030	-.1620	.5560	-.3120	-.5410	-.0560	-.1130	-.2400	-.0920
120.000	1.3690		.7870	.3200	-.0370	-.1250	-.2130	-.1530	.3080	.0430	-.2770	.1470	.1760	.1030	-.0460
135.000	1.3690							-.2060		.2010		.0960		.1030	
150.000	1.3690		.7030	.2440	-.1020	-.1820	-.2670	-.2340	.0860	.3770	.0300	-.0950	.1890	.0680	-.0860
165.000	1.3690			.1920	-.1400	-.2210	-.2990	-.2660	.1580	.5130	.0320		.0710		-.1360
180.000	1.3690	1.2570	.5940	.1420	-.1760	-.2530	-.3290	-.2920	.1780	.5380	-.0940	-.2680	-.0510	.0080	-.2550
270.000	1.3690	1.1020													

X/LT	.7449	.8526	.9290

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT18)

AMES 11-707 IA9 OA + S3 + T9 EXTERNAL TANK

MACH (2) = 1.247 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0750	-.0330	-.0350
30.000	-.0780	-.0270	-.0090
60.000	-.0190	-.0300	-.0190
90.000			-.1390
120.000	.0860	.3330	.1470
135.000	.0440	.3840	.1470
150.000	-.0660	.4260	.1350
165.000		.4350	.1160
180.000	-.3530		

MACH (2) = 1.249 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1955	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4120	1.2970	.6070	.1550	-.1620	-.2350	-.3260	-.2860	-.1970	.1730	.0400	-.1630	-.2090	-.0750	-.0050
30.000	1.4120		.6570	.1970	-.1370	-.2040	-.3030	-.2590	.0450	.0800	-.0760	-.2160	-.0490	-.0580	-.0730
60.000	1.4120		.7030	.2340	-.1020	-.1840	-.2730	-.2330	.2220	.0280	-.4500	-.0610	.0210	.0000	-.0390
90.000	1.4120	1.3710	.7250	.2540	-.0870	-.1780	-.2630	-.2200	.5510	-.3020	-.6860	-.0960	-.0570	-.1030	-.1280
120.000	1.4120		.7070	.2410	-.1000	-.1810	-.2650	-.2230	.3250	.1200	-.2380	.0170	.0890	.0820	-.0980
135.000	1.4120							-.2370		.2850		-.1190		.0730	
150.000	1.4120		.6710	.2080	-.1250	-.2080	-.2880	-.2450	.2240	.4090	-.0020	-.1280	.1240	.0770	-.0960
165.000	1.4120			.1620	-.1470	-.2240	-.2980	-.2550	.2360	.4520	-.0290		.0160		-.1350
180.000	1.4120	1.2990	.6200	.1520	-.1610	-.2380	-.3170	-.2710	.1270	.4820	-.0480	-.1480	-.1050	.0570	-.1650
270.000	1.4120	1.2150													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0390	-.0350	-.0470
30.000	-.0390	-.0210	-.0220
60.000	-.0230	-.0260	-.0420
90.000			-.1750
120.000	-.0020	.2470	-.0190
135.000	-.0360	.2730	.0240
150.000	-.1040	.2740	.0330
165.000		.1590	.0670
180.000	-.2290		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IASA

AMES 11-707 IA9 OEA ◆ S9 ◆ T9 EXTERNAL TANK (RBNT16)

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4160	1.2930	.6130	.1520	-.1640	-.2370	-.3260	-.2800	-.1670	.1650	.0590	-.1520	-.2140	-.0590	-.0010
30.000	1.4160		.6110	.1480	-.1710	-.2400	-.3300	-.2800	.0620	.1040	-.0280	-.2060	-.0920	-.0810	-.0420
60.000	1.4160		.6130	.1500	-.1640	-.2370	-.3220	-.2800	.1380	.0610	-.4090	-.0450	.0010	-.0470	-.0300
90.000	1.4160	1.2970	.6190	.1550	-.1590	-.2410	-.3200	-.2770	.5800	-.2960	-.5450	-.1020	.0570	-.1330	-.1280
120.000	1.4160		.6180	.1580	-.1570	-.2340	-.3130	-.2710	.2750	.1650	-.2280	-.0490	.1030	.0370	-.1470
135.000	1.4160							-.2730		.3120		-.1310		.0390	
150.000	1.4160		.6240	.1700	-.1570	-.2330	-.3100	-.2700	.1480	.2910	-.0130	-.1140	.0020	.0390	-.1450
165.000	1.4160			.1660	-.1590	-.2320	-.3100	-.2690	.1520	.3130	-.0430		-.0740		-.1440
180.000	1.4160	1.3100	.6270	.1590	-.1560	-.2320	-.3120	-.2690	.1620	.3170	-.0770	-.0570	-.1460	.0680	-.1310
270.000	1.4160	1.2990													

X/LT	.7449	.8526	.9290
PHI			
.000	.0010	-.0260	-.0480
30.000	.0020	-.0150	-.0170
60.000	-.0090	-.0190	-.0500
90.000			-.0880
120.000	-.0800	.1400	-.0810
135.000	-.0930	.1 [illegible]	-.0720
150.000	-.1340	.1100	-.0770
165.000		-.0140	-.1000
180.000	-.1390		

MACH (2) = 1.244 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4050	1.2750	.5990	.1490	-.1670	-.2370	-.3270	-.2690	-.1690	.1590	.0270	-.1740	-.1940	-.0820	-.0030
30.000	1.4050		.5510	.1000	-.2030	-.2660	-.3560	-.3120	.0630	.0670	.0290	-.2170	-.1650	-.0790	-.0540
60.000	1.4050		.5220	.0770	-.2180	-.2930	-.3660	-.3210	.0490	.1000	-.3500	-.0340	-.0520	-.0730	-.0140
90.000	1.4050	1.2030	.5200	.0720	-.2190	-.3020	-.3700	-.2120	.5610	-.3120	-.3440	-.1160	.0130	-.1400	-.1160
120.000	1.4050		.5260	.0840	-.2100	-.2900	-.3620	-.0820	.0670	.2270	-.1530	-.0690	.0040	.0070	-.1850
135.000	1.4050							-.0670		.1860		-.1070		-.0080	
150.000	1.4050		.5700	.1220	-.1920	-.2700	-.3440	-.2450	.1330	.2500	-.0790	-.2120	-.0880	-.0270	-.2090
165.000	1.4050			.1420	-.1800	-.2570	-.3310	-.2930	.1240	.3660	-.1710		-.0640		-.2250
180.000	1.4050	1.3030	.6250	.1600	-.1640	-.2410	-.3230	-.2780	.1760	.5270	-.1720	-.1940	-.0480	.0370	-.1820
270.000	1.4050	1.3700													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT18)

MACH (2) = 1.244 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0330	-.0400	-.0480
30.000	-.0330	-.0350	-.0460
60.000	-.0050	-.0350	-.0310
90.000			-.0900
120.000	-.0540	.0220	-.0870
135.000	-.0540	.0230	-.1270
150.000	-.0480	.0120	-.1370
165.000		-.2020	-.1850
180.000	-.2440		

MACH (2) = 1.244 BETAT (5) = 8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3700	1.2419	.5750	.1240	-.1860	-.2580	-.3440	-.3100	-.1330	.0690	-.0380	-.2080	-.1550	-.1280	-.0520
30.000	1.3700		.4820	.0460	-.2480	-.3100	-.3930	-.3490	.0510	.0830	-.0420	-.2370	-.1810	-.0940	-.0370
60.000	1.3700		.4320	-.0010	-.2740	-.3420	-.4070	-.3260	-.0170	.1710	-.2760	-.0450	-.1410	-.0670	- 0080
90.000	1.3700	1.0930	.4230	-.0080	-.2810	-.3500	-.4140	-.0690	.5100	-.2850	-.1450	-.1320	-.0070	-.1280	-.0780
120.000	1.3700		.4320	.0060	-.2720	-.3390	-.4050	-.0460	.0110	.2460	-.1310	-.1690	-.0230	-.0210	-.2270
135.000	1.3700							-.0280		.2130		-.1670		-.0410	
150.000	1.3700		.4930	.0590	-.2430	-.3150	-.3860	-.0910	.0860	.2570	-.1550	-.2740	.0450	-.0870	-.3040
165.000	1.3700			.0930	-.2160	-.2940	-.3650	-.3280	.0910	.3720	-.2560		.0460		-.3680
180.000	1.3700	1.2630	.5880	.1370	-.1860	-.2600	-.3360	-.2980	.1930	.5190	-.2550	-.2990	-.0640	-.0140	-.2540
270.000	1.3700	1.4100													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0490	-.0500	-.0480
30.000	-.0480	-.0390	-.0660
60.000	.0390	-.0420	-.0500
90.000			-.1160
120.000	.0440	.0230	-.1160
135.000	-.0290	.0130	-.1810
150.000	-.0990	-.1680	-.2320
165.000		-.2490	-.2930
180.000	-.3480		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT17) (27 APR 73)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .900
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.102 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2620	1.2190	.5030	.1170	-.2330	-.3110	-.4080	-.3520	.1290	.0840	-.1060	-.2330	-.1370	-.0940	-.0320
30.000	1.2620		.5840	.2010	-.1620	-.2400	-.3500	-.2760	.1440	.0210	-.2410	-.0450	-.0410	-.0550	-.0900
60.000	1.2620		.7590	.2740	-.1040	-.1860	-.2950	.0330	.3160	-.0530	-.4880	.0160	.0410	.0130	-.0160
90.000	1.2620	1.3240	.7610	.2760	-.1020	-.1880	-.2980	.2240	.5130	-.4830	-.3860	.0280	.0460	-.0160	-.0550
120.000	1.2620		.6900	.2190	-.1590	-.2380	-.3330	-.0150	.2620	-.1090	-.1700	.1130	.1380	.0680	-.0950
135.000	1.2620							-.2770		.0640		.1380		.0360	
150.000	1.2620		.5840	.1260	-.2340	-.3170	-.4010	-.3540	.2060	.2480	-.1470	.1090	.1260	-.0320	-.1430
165.000	1.2620			.0680	-.2800	-.3490	-.4320	-.1450	.1970	.3880	-.1480		.0560		-.2270
180.000	1.2620	1.1330	.4780	.0180	-.3070	-.3820	-.4510	-.0590	.1370	.3920	-.2100	-.2240	-.0130	-.1840	-.3290
270.000	1.2620	1.0230													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0810	-.0570	-.0730
30.000	-.0840	.0160	-.0470
60.000	.0240	.0490	-.0450
90.000			-.1620
120.000	.2130	.3170	.1260
135.000	.2140	.3550	.1120
150.000	.2340	.3870	.0930
165.000		.3620	.1060
180.000	.0760		

MACH (1) = 1.098 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3230	1.2560	.6080	.1340	-.2210	-.3000	-.3990	-.3410	.1750	.1550	-.0510	-.2530	-.0970	-.0120	.0390
30.000	1.3230		.6520	.1680	-.1940	-.2730	-.3750	-.3100	.1900	.1090	-.1710	-.1120	-.0580	-.0010	-.0250
60.000	1.3230		.6720	.1910	-.1720	-.2580	-.3570	-.2220	.3400	-.0150	-.4780	.0140	.0220	.0100	.0070
90.000	1.3230	1.2860	.6620	.1770	-.1800	-.2700	-.3690	.0670	.5290	-.4900	-.4210	.0460	.0540	.0010	-.0340
120.000	1.3230		.6160	.1440	-.2150	-.2970	-.3870	-.0910	.3210	-.0440	-.3110	.1310	.1170	.0240	-.1360
135.000	1.3230							-.2230		.1440		.1720		.0040	
150.000	1.3230		.5550	.0960	-.2610	-.3370	-.4190	-.1330	.2010	.2970	-.1870	.1510	.1250	-.0380	-.1600

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT17)

MACH (1) = 1.098 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3230			.0650	-.2790	-.3540	-.4370	-.0320	.1570	.4010	-.2200		.0970		-.1800
180.000	1.3230	1.1750	.5080	.0340	-.2950	-.3670	-.2690	-.0130	.1050	.4050	-.2540	-.0570	.0680	-.0990	-.2320
270.000	1.3230	1.1370													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0690	-.0370	-.0180
30.000	-.0695	.0000	-.0350
60.000	-.0080	.0120	-.0770
90.000			-.1900
120.000	.0980	.2090	.0470
135.000	.1410	.2320	.0460
150.000	.1820	.2370	.0260
165.000		.0990	.0240
180.000	.1410		

MACH (1) = 1.102 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3380	1.2660	.6170	.1360	-.2190	-.2980	-.3950	-.3310	.1830	.1770	-.0330	-.2450	-.0520	.0460	.0510
30.000	1.3380		.6050	.1220	-.2280	-.3070	-.4020	-.3370	.1710	.1440	-.1040	-.2090	-.0550	.0460	-.0230
60.000	1.3380		.5870	.1100	-.2390	-.3180	-.4090	-.1880	.3080	.0290	-.4380	.0030	-.0070	.0280	-.0090
90.000	1.3380	1.2240	.5670	.0890	-.2530	-.3360	-.4260	.0230	.5520	-.4930	-.4350	.0720	.0400	-.0140	-.0500
120.000	1.3380		.5360	.0710	-.2710	-.3470	-.4300	.0130	.3230	.0050	-.3880	.1590	.0890	-.0360	-.1930
135.000	1.3380							.0030		.1890		.1670		-.0500	
150.000	1.3380		.5250	.0620	-.2860	-.3590	-.3000	-.0090	.1340	.2720	-.1650	.1080	.0760	-.0730	-.2020
165.000	1.3380			.0530	-.2890	-.3620	-.1510	.0080	.1280	.2900	-.0810		.0760		-.1900
180.000	1.3380	1.1890	.5200	.0430	-.2940	-.3620	-.1070	.0210	.1330	.2970	-.0650	.0320	.0820	-.0520	-.1900
270.000	1.3380	1.2240													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0530	-.0520	-.0430
30.000	-.0540	-.0310	-.0130
60.000	-.0130	-.0140	-.0380
90.000			-.1690
120.000	.0900	.0840	-.0740
135.000	.1130	.0720	-.0500
150.000	.1240	.0210	-.0830

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RUNT17)

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK

MACH (1) = 1.102 BETAT (3) = .029

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE C_p

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1640	-.1250
180.000	.1440		

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3240	1.2450	.6020	.1280	-.2230	-.3040	-.4000	-.3400	.1760	.1510	-.0560	-.2590	-.1080	-.0010	.0360
30.000	1.3240		.5410	.0750	-.2750	-.3460	-.4340	-.3480	.1490	.1260	-.0780	-.2340	-.1040	.0090	-.0200
60.000	1.3240		.4900	.0230	-.3040	-.3740	-.4590	-.0170	.1650	.0840	-.3710	-.0700	-.0750	.0210	-.0200
90.000	1.3240	1.1310	.4670	-.0020	-.3210	-.3950	-.4570	-.0150	.6040	-.4980	-.2690	.0160	-.0080	-.0400	-.0970
120.000	1.3240		.4480	-.0060	-.3300	-.3990	-.1540	-.0140	.1770	-.0670	-.3420	.0630	.0440	-.0860	-.2380
135.000	1.3240							-.0100		.1980		.0400		-.1040	
150.000	1.3240		.4660	.0100	-.3230	-.3930	-.0390	.0030	.1150	.2680	-.2160	.0320	.0240	-.1370	-.2710
165.000	1.3240			.0200	-.3140	-.3840	-.0480	.0030	.1050	.2770	-.3040		.0330		-.2890
180.000	1.3240	1.1780	.5070	.0320	-.3030	-.3710	-.2770	-.0210	.1110	.4140	-.3200	-.0310	.0670	-.1070	-.2450
270.000	1.3240	1.2860													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0770	-.0450	-.0220
30.000	-.0770	-.0170	-.0590
60.000	.0030	.0120	-.0600
90.000			-.1490
120.000	.0750	.0320	-.1490
135.000	.0740	.0040	-.1180
150.000	.1090	-.0560	-.1540
165.000		-.1870	-.1830
180.000	.1430		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT17)

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE P

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2840	1.2060	.5790	.1120	-.2350	-.3170	-.4160	-.3540	.1110	.0710	-.1190	-.2090	-.1440	-.1060	-.0420
30.000	1.2840		.4720	.0150	-.3220	-.3890	-.4790	-.1300	.1040	.1130	-.1190	-.2440	-.1410	-.0460	-.0650
60.000	1.2840		.3980	-.0530	-.3580	-.4270	-.3110	-.0630	.0130	.1590	-.2850	-.1570	-.1000	-.0350	-.0610
90.000	1.2840	1.0170	.3740	-.0810	-.3730	-.4430	-.1300	-.0620	.6090	-.4520	-.1140	-.1340	-.0300	-.0720	-.1730
120.000	1.2840		.3630	-.0780	-.3730	-.4420	-.0880	-.0510	.0520	.1280	-.1560	-.0940	.0100	-.1300	-.3010
135.000	1.2840							-.0430		.1560		-.0160		-.1550	
150.000	1.2840		.4000	-.0400	-.3570	-.4300	-.0480	-.0350	.0690	.2200	-.2890	-.0080	-.0300	-.2150	-.3550
165.000	1.2840			-.0160	-.3390	-.4130	-.0790	-.0450	.0640	.2790	-.4250		-.0540		-.4370
180.000	1.2840	1.1380	.4750	.0140	-.3180	-.3890	-.4590	-.0640	.1210	.4040	-.4250	-.2330	-.0050	-.2030	-.3410
270.000	1.2840	1.3270													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0940	-.0350	-.0860
30.000	-.0980	-.0090	-.0860
60.000	.0110	.0110	-.0830
90.000			-.1600
120.000	.0610	.0250	-.1610
135.000	.0690	.0000	-.2000
150.000	.0530	-.1980	-.2350
165.000		-.2450	-.2370
180.000	.0370		

MACH (2) = 1.244 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3660	1.2960	.6390	.1900	-.1390	-.2160	-.3090	-.2690	-.1610	.1330	-.0050	-.1660	-.1330	-.1120	-.0620
30.000	1.3660		.7430	.2740	-.0710	-.1460	-.2470	-.2000	.1000	.0410	-.1190	-.1760	-.0180	-.0480	-.0860
60.000	1.3660		.8120	.3410	-.0160	-.1050	-.2030	-.1590	.3360	.0620	-.4170	-.0440	.0320	.0250	-.0050
90.000	1.3660	1.4040	.8180	.3390	-.0140	-.1060	-.2030	-.1630	.5530	-.3050	-.4090	-.0210	.0320	.0190	-.0550
120.000	1.3660		.7460	.2820	-.0670	-.1520	-.2370	-.2020	.2340	-.0590	-.2150	.0330	.0690	.1000	-.0180
135.000	1.3660							-.2400		.1150		.0210		.0720	
150.000	1.3660		.6400	.1920	-.1450	-.2230	-.3040	-.2700	.0570	.3140	.0080	-.0220	.1730	.0500	-.0200
165.000	1.3660			.1340	-.1840	-.2590	-.3330	-.3000	.1070	.4780	.0210		.0360		-.0930
180.000	1.3660	1.2110	.5320	.0890	-.2150	-.2890	-.3670	-.3250	.0860	.4890	-.0450	-.2620	-.1060	.0030	-.2150
270.000	1.3660	1.0960													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CBA + S3 + T9 EXTERNAL TANK (RUN17)

MACH (2) = 1.244 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8326	.9290
PHI			
.000	-.0730	-.0110	-.0380
30.000	-.0720	.0000	.0030
60.000	.0030	.0040	.0040
90.000			-.2280
120.000	.1090	.3540	.1550
135.000	.0420	.4020	.2180
150.000	-.0390	.4390	.2040
165.000		.4430	.2090
180.000	-.3020		

MACH (2) = 1.251 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4060	1.3330	.6630	.2040	-.1230	-.1970	-.2920	-.2550	-.1600	.2010	.0620	-.1310	-.1830	-.0720	-.0120
30.000	1.4060		.7090	.2420	-.0990	-.1690	-.2700	-.2250	.0710	.1160	-.0310	-.1720	-.0370	-.0470	-.0750
60.000	1.4060		.7300	.2590	-.0790	-.1610	-.2550	-.2120	.2680	.0940	-.3840	-.0270	.0240	.0090	-.0330
90.000	1.4060	1.3640	.7200	.2490	-.0880	-.1760	-.2630	-.2190	.5400	-.3000	-.4520	.0120	.0450	.0310	-.0330
120.000	1.4060		.6710	.2090	-.1240	-.2020	-.2810	-.2410	.2250	.0460	-.3070	-.0140	.0590	.0700	-.0570
135.000	1.4060							-.2620		.2080		-.0670		.0620	
150.000	1.4060		.6130	.1610	-.1620	-.2390	-.3140	-.2740	.1750	.3610	-.0140	-.1500	.1360	.1100	-.0780
165.000	1.4060			.1340	-.1820	-.2550	-.3290	-.2870	.1750	.4100	-.0360		-.0070		-.1070
180.000	1.4060	1.2520	.5640	.1040	-.1960	-.2680	-.3440	-.2970	.0900	.3840	-.0340	-.1400	-.1780	.1140	-.1430
270.000	1.4060	1.2130													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0300	-.0150	-.0270
30.000	-.0300	.0020	-.0050
60.000	.0040	.0080	-.0080
90.000			-.1860
120.000	-.0100	.2580	.0250
135.000	-.0100	.2860	.0620
150.000	-.0640	.2930	.0790
165.000		.1740	.0870
180.000	-.1910		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT17)

MACH (2) = 1.248 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4180	1.3410	.6710	.2070	-.1220	-.1990	-.2960	-.2590	-.1740	.2120	.0780	-.1210	-.1750	-.0490	-.0050
30.000	1.4180		.6630	.1940	-.1340	-.2050	-.3020	-.2590	.0720	.1350	.0970	-.1680	-.0620	-.0500	-.0560
60.000	1.4180		.6450	.1790	-.1420	-.2220	-.3060	-.2610	.1680	.1260	-.3410	-.0280	.0070	-.0210	-.0320
90.000	1.4180	1.3000	.6250	.1610	-.1560	-.2400	-.3210	-.2770	.5760	-.2990	-.4350	.0520	.0450	.0150	-.0600
120.000	1.4180		.5920	.1410	-.1750	-.2530	-.3280	-.2870	.2680	.0780	-.2980	.0150	.0540	.0410	-.1150
135.000	1.4180							-.2900		.2060		-.0530		.0450	
150.000	1.4180		.5800	.1310	-.1870	-.2640	-.3360	-.2710	.1090	.2210	-.0120	-.1410	.0120	.0460	-.1160
165.000	1.4180			.1220	-.1900	-.2650	-.3390	-.2730	.1110	.2240	-.0310		-.0520		-.1150
180.000	1.4180	1.2640	.5730	.1130	-.1930	-.2660	-.3410	-.2960	.0990	.2900	-.0360	-.0590	-.2210	.1190	-.1160
270.000	1.4180	1.3010													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0060	-.0080	-.0410
30.000	-.0060	.0000	-.0080
60.000	.0060	.0090	-.0360
90.000			-.1130
120.000	-.0250	.1450	-.0940
135.000	-.0480	.1360	-.0200
150.000	-.0980	.1150	-.0390
165.000		-.0110	-.0710
180.000	-.0970		

MACH (2) = 1.244 BETAT (4) = 4.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4060	1.3220	.6600	.2010	-.1320	-.2050	-.2170	-.2550	-.1670	.1690	.0520	-.1380	-.1690	-.0850	-.0080
30.000	1.4060		.6000	.1450	-.1740	-.2420	-.3010	-.2860	.0820	.1360	-.0180	-.1980	-.1550	-.0730	-.0480
60.000	1.4060		.5520	.0980	-.1990	-.2730	-.3540	-.3130	.0840	.1720	-.2860	-.0230	-.0630	-.0550	-.0260
90.000	1.4060	1.2110	.5260	.0750	-.2160	-.2950	-.3690	-.3090	.5760	-.3110	-.3400	.0190	-.0160	-.0100	-.0540
120.000	1.4060		.5080	.0670	-.2240	-.2960	-.3660	-.1940	.0650	.1400	-.2370	-.0390	-.0160	.0280	-.1460
135.000	1.4060							-.1300		.1950		-.1120		.0250	
150.000	1.4060		.5280	.0850	-.2190	-.2950	-.3610	-.0860	.0880	.2540	-.0550	-.2500	-.0790	.0130	-.1730
165.000	1.4060			.0960	-.2130	-.2860	-.3540	-.2170	.0880	.2550	-.1370		-.1710		-.1920
180.000	1.4060	1.2570	.5670	.1040	-.2020	-.2760	-.3540	-.3040	.0850	.4370	-.1350	-.1690	-.1430	.0950	-.1530
270.000	1.4060	1.3650													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT17)

MACH (2) = 1.244 BETAT (4) = 4.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0300	-.0190	-.0270
30.000	-.0290	-.0190	-.0450
60.000	.0190	-.0090	-.0450
90.000			-.1100
120.000	-.0220	.0270	-.1090
135.000	-.0230	.0050	-.0860
150.000	-.0400	-.0360	-.0890
165.000		-.1780	-.1630
180.000	-.1820		

MACH (2) = 1.245 BETAT (5) = 8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3680	1.2840	.6360	.1810	-.1440	-.2190	-.3130	-.2750	-.1370	.1100	-.0160	-.1740	-.1290	-.1170	-.0530
30.000	1.3680		.5280	.0830	-.2240	-.2860	-.3710	-.3320	.0690	.1240	-.0170	-.2070	-.1490	-.1060	-.0570
60.000	1.3680		.4550	.0210	-.2640	-.3290	-.4050	-.3630	-.0080	.2480	-.2070	-.0240	-.1360	-.0620	-.0480
90.000	1.3680	1.0950	.4250	-.0100	-.2800	-.3490	-.4120	-.1110	.5760	-.2850	-.1670	-.0160	-.1360	-.0170	-.0820
120.000	1.3680		.4150	-.0060	-.2790	-.3450	-.4070	-.0670	.0200	.2100	-.1800	-.1390	-.0880	.0030	-.1660
135.000	1.3680							-.0460		.1490		-.1570		-.0100	
150.000	1.3680		.4550	.0270	-.2630	-.3320	-.3980	-.0740	.0840	.2750	-.1190	-.2760	-.0050	-.0440	-.2230
165.000	1.3680			.0500	-.2460	-.3180	-.3840	-.3160	.1350	.3030	-.2190		-.0750		-.2940
180.000	1.3680	1.2180	.5350	.0850	-.2230	-.2930	-.3670	-.3260	.1090	.4650	-.2200	-.2730	-.1320	.0230	-.2130
270.000	1.3680	1.4070													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0570	-.0210	-.0370
30.000	-.0620	-.0220	-.0560
60.000	.0870	-.0340	-.0520
90.000			-.1370
120.000	.0590	.0540	-.1360
135.000	.0390	.0400	-.1550
150.000	-.0150	-.1040	-.2090
165.000		-.2310	-.2080
180.000	-.2930		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBHT18) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2690	1.2430	.6280	.1640	-.1970	-.2800	-.3770	-.3170	.1360	.0910	-.0820	-.1810	-.1270	-.0990	-.0370
30.000	1.2690		.7370	.2510	-.1220	-.2070	-.3120	-.2390	.1670	.0490	-.2180	-.0240	-.0280	-.0260	-.0780
60.000	1.2690		.7890	.3[illegible]	-.0780	-.1610	-.2700	.0590	.3590	-.0070	-.4440	.0200	.0540	.0450	.0050
90.000	1.2690	1.3150	.7610	.2750	-.0990	-.1910	-.2960	.2280	.4900	-.4960	-.3760	-.0110	.0790	.0710	.0060
120.000	1.2690		.6560	.1850	-.1840	-.2640	-.3550	-.0070	.1860	-.1850	-.2850	.0200	.1030	.0870	-.0440
135.000	1.2690							-.2260		-.0110		.1050		.0480	
150.000	1.2690		.5300	.0800	-.2750	-.3520	-.4340	-.2710	.1180	.2010	-.0670	.0990	.1030	-.0270	-.1040
165.000	1.2690			.0210	-.3190	-.3860	-.4620	-.0770	.1010	.3510	-.1380		.0450		-.1980
180.000	1.2690	1.0840	.4250	-.0270	-.3430	-.4120	-.1810	-.0590	.0620	.3750	-.2370	-.1950	-.0220	-.1760	-.2910
270.000	1.2690	1.0070													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0770	-.0150	-.0630
30.000	-.0130	.0650	-.0230
60.000	.0420	.1040	-.0230
90.000			-.2570
120.000	.1890	.3230	.0950
135.000	.2070	.3640	.1140
150.000	.2140	.3920	.1010
165.000		.3990	.1170
180.000	.0620		

MACH (1) = 1.099 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3120	1.2860	.6600	.1810	-.1650	-.2690	-.3740	-.3100	.1930	.1720	-.0270	-.2140	-.0950	-.0300	.0440
30.000	1.3120		.7010	.2120	-.1560	-.2410	-.3500	-.2760	.2070	.1360	-.1500	-.0730	-.0640	.0020	.0020
60.000	1.3120		.7020	.2140	-.1550	-.2400	-.3440	-.2290	.3690	.0330	-.4100	.0000	-.0050	.0370	.0320
90.000	1.3120	1.2770	.6590	.1750	-.1870	-.2780	-.3760	.0680	.5020	-.5130	-.4060	-.0340	.0810	.0500	-.0140
120.000	1.3120		.5810	.1130	-.2430	-.3250	-.4120	-.1130	.2450	-.1300	-.2390	.0150	.0750	.0370	-.0940
135.000	1.3120							-.1360		.0630		.1320		.0120	
150.000	1.3120		.5070	.0490	-.2990	-.3730	-.4930	-.0510	.1170	.2360	-.2000	.1410	.0860	-.0340	-.1270

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CBA + S3 + T9 EXTERNAL TANK (RUNT18)

MACH (1) = 1.099 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3120			.0140	-.3210	-.3940	-.2610	-.0490	.0810	.3290	-.2160		.0810		-.1420
180.000	1.3120	1.1260	.4550	-.0130	-.3310	-.4060	-.0560	-.0300	.0630	.3080	-.2210	-.0620	.0420	-.0680	-.1680
270.000	1.3120	1.1250													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0550	-.0250	-.0120
30.000	-.0450	.0220	-.0090
60.000	.0310	.0550	-.0490
90.000			-.2340
120.000	.1070	.2190	.0500
135.000	.1350	.2390	.0490
150.000	.1670	.2460	.0380
165.000		.0910	.0380
180.000	.1220		

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3260	1.2950	.6660	.1960	-.1800	-.2660	-.3660	-.3040	.2070	.1960	-.0090	-.2090	-.0550	.0230	.0670
30.000	1.3260		.6460	.1640	-.2010	-.2820	-.3830	-.3140	.1900	.1700	-.0680	-.1430	-.0570	.0260	-.0010
60.000	1.3260		.6060	.1250	-.2280	-.3070	-.4030	-.2110	.3240	.0790	-.3680	-.0230	-.0280	.0320	.0160
90.000	1.3260	1.2090	.5560	.0820	-.2630	-.3460	-.4350	.0110	.5350	-.5280	-.3850	-.0070	.0550	.0190	-.0760
120.000	1.3260		.5030	.0380	-.2990	-.3750	-.4520	-.0160	.2830	-.0660	-.2100	.0860	.0740	-.0120	-.1630
135.000	1.3260							-.0380		.1310		.1510		-.0360	
150.000	1.3260		.4740	.0150	-.3230	-.3940	-.2600	-.0460	.0870	.2360	-.1540	.0990	.0680	-.0600	-.1630
165.000	1.3260			.0020	-.3280	-.3980	-.0920	-.0300	.0860	.2520	-.0480		.0660		-.1650
180.000	1.3260	1.1380	.4660	-.0070	-.3290	-.3960	-.0530	-.0040	.0970	.2630	-.0550	.0770	.0750	-.0430	-.1530
270.000	1.3260	1.2160													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0350	-.0490	.0090
30.000	-.0350	-.0320	-.0120
60.000	.0450	-.0040	-.0510
90.000			-.1800
120.000	.0700	.1080	-.0680
135.000	.0940	.0890	-.0530
150.000	.1130	.0340	-.0720

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 EXTERNAL TANK (RBNT18)

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1730	-.0930
180.000	.1360		

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3130	1.2700	.6470	.1730	-.1800	-.2690	-.3740	-.3110	.1940	.1650	-.0350	-.2180	-.1060	-.0180	.0480
30.000	1.3130		.5740	.1030	-.2480	-.3230	-.4220	-.3550	.1730	.1710	-.0870	-.2150	-.1050	-.0190	-.0220
60.000	1.3130		.5000	.0490	-.2950	-.3680	-.4570	-.0160	.1810	.1400	-.3010	-.0870	-.0930	.0110	.0030
90.000	1.3130	1.1200	.4570	-.0080	-.3260	-.4040	-.4830	-.0280	.5800	-.5130	-.3610	-.0220	.0070	-.0190	-.1220
120.000	1.3130		.4230	-.0320	-.3430	-.4120	-.2120	-.0410	.1720	.0050	-.2570	.0760	.0510	-.0660	-.2170
135.000	1.3130							-.0320		.1840		.0650		-.0850	
150.000	1.3130		.4280	-.0250	-.3450	-.4130	-.0660	-.0330	.0760	.2220	-.1490	.0280	.0260	-.1180	-.2350
165.000	1.3130			-.0190	-.3400	-.4130	-.0390	-.0170	.0910	.2170	-.2130		.0250		-.2480
180.000	1.3130	1.1340	.4600	-.0060	-.3320	-.4020	-.0630	-.0260	.0700	.3390	-.2790	.0170	.0390	-.0950	-.2060
270.000	1.3130	1.2820													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0530	-.0380	.0130
30.000	-.0520	-.0250	-.0250
60.000	.0380	.0100	-.0610
90.000			-.1300
120.000	.0730	.0580	-.1300
135.000	.0920	.0330	-.1130
150.000	.1010	-.0190	-.1400
165.000		-.1610	-.1840
180.000	.1280		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT1B)

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK

MACH (1) = 1.099 BETAT (5) = 8.260

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2710	1.2300	.6270	.1590	-.1990	-.2810	-.3820	-.3210	.1270	.0760	-.0950	-.1650	-.1320	-.1070	-.0380
30.000	1.2710		.5010	.0430	-.3030	-.3700	-.4620	-.3130	.1210	.1360	-.0950	-.2280	-.1490	-.0770	-.0700
60.000	1.2710		.4020	-.0450	-.3580	-.4280	-.2350	-.0610	.0260	.1590	-.1680	-.1610	-.1350	-.0360	-.0290
90.000	1.2710	1.0040	.3640	-.0920	-.3860	-.4500	-.1100	-.0680	.5100	-.4770	-.1990	-.2100	-.0220	-.0660	-.1390
120.000	1.2710		.3380	-.1010	-.3910	-.4510	-.0910	-.0580	.0640	.0840	-.0990	-.0870	.0230	-.1080	-.2790
135.000	1.2710							-.0560		.1370		-.0190		-.1400	
150.000	1.2710		.3640	-.0770	-.3850	-.4460	-.0580	-.0420	.0510	.2260	-.2690	-.0410	-.0190	-.1930	-.3100
165.000	1.2710			-.0590	-.3710	-.4370	-.0670	-.0500	.0320	.2470	-.4120		-.0480		-.3970
180.000	1.2710	1.0890	.4240	-.0330	-.3550	-.4190	-.2300	-.0720	.0800	.3770	-.3760	-.2290	.0000	-.1990	-.3010
270.000	1.2710	1.3170													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0790	-.0180	-.0710
30.000	-.0840	-.0130	-.0710
60.000	.0330	.0270	-.0840
90.000			-.1460
120.000	.0790	.0400	-.1460
135.000	.0850	.0020	-.1970
150.000	.0720	-.1990	-.2300
165.000		-.2470	-.2300
180.000	.0540		

MACH (2) = 1.244 BETAT (1) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3510	1.3200	.6830	.2280	-.1130	-.1680	-.2820	-.2410	-.1340	.1350	.0110	-.1370	-.1140	-.0980	-.0690
30.000	1.3510		.7890	.3130	-.0400	-.1150	-.2220	-.1720	.1520	.0740	-.1380	-.1200	-.0010	-.0250	-.0690
60.000	1.3510		.8420	.3630	.0060	-.0830	-.1830	-.1390	.3850	.1100	-.3660	-.0460	.0430	.0480	.0110
90.000	1.3510	1.3920	.8150	.3380	-.0180	-.1070	-.2040	-.1610	.5390	-.3140	-.3840	-.0680	.0510	.0890	.0190
120.000	1.3510		.7100	.2520	-.0940	-.1740	-.2610	-.2230	.1710	-.1250	-.1140	-.0770	.0300	.1020	.0190
135.000	1.3510							-.2640		-.0370		-.0620		.0840	
150.000	1.3510		.5860	.1450	-.1810	-.2570	-.3360	-.3000	.0840	.2490	.0120	-.0820	.1180	.0480	.0190
165.000	1.3510			.0880	-.2220	-.2910	-.3630	-.3240	.0650	.3810	.0110		-.0080		-.0900
180.000	1.3510	1.1620	.4800	.0440	-.2490	-.3180	-.3920	-.3430	.0460	.3990	-.1190	-.2060	-.1900	-.1030	-.1490
270.000	1.3510	1.0800													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7X7 IA9 CBA + S3 + T9 EXTERNAL TANK (RBNT18)

MACH (2) = 1.244 BETAT (1) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0900	.0020	-.0290
30.000	-.0300	.0310	.0270
60.000	.0100	.0410	.0240
90.000			-.3020
120.000	.0940	.3530	.1840
135.000	.0940	.3960	.2050
150.000	.0380	.4220	.1910
165.000		.4360	.2120
180.000	-.2500		

MACH (2) = 1.244 BETAT (2) = -4.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3910	1.3600	.7140	.2530	-.0920	-.1700	-.2700	-.2270	-.1570	.2240	.0800	-.1090	-.1500	-.0670	-.0140
30.000	1.3910		.7540	.2830	-.0660	-.1450	-.2460	-.1980	.1050	.1500	-.0140	-.1360	-.0260	-.0480	-.0330
60.000	1.3910		.7560	.2840	-.0520	-.1470	-.2410	-.2000	.3120	.1330	-.3360	-.0400	.0310	.0010	-.0250
90.000	1.3910	1.3550	.7160	.2470	-.0920	-.1780	-.2680	-.2290	.5240	-.3220	-.3870	-.0560	.0540	.0670	-.0230
120.000	1.3910		.6400	.1850	-.1440	-.2220	-.3020	-.2660	.1540	-.0440	-.1500	-.0810	.0490	.0650	-.0300
135.000	1.3910							-.2900		.1470		-.1670		.0640	
150.000	1.3910		.5700	.1190	-.1950	-.2680	-.3420	-.3040	.1320	.2860	-.0320	-.0950	.1210	.0900	-.0580
165.000	1.3910			.0900	-.2140	-.2850	-.3570	-.3180	.1080	.3450	-.0470		-.0230		-.0920
180.000	1.3910	1.1990	.5150	.0620	-.2280	-.2980	-.3690	-.2620	.0500	.3270	-.0650	-.1380	-.1690	.0940	-.1300
270.000	1.3910	1.1970													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0400	.0040	-.0060
30.000	-.0390	.0260	.0180
60.000	.0300	.0380	-.0050
90.000			-.2310
120.000	.0320	.2490	.0750
135.000	-.0140	.2750	.1210
150.000	-.0320	.2750	.1220
165.000		.1750	.1220
180.000	-.1430		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT18)

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4030	1.3640	.7170	.2530	-.0900	-.1650	-.2650	-.2260	-.1530	.2410	.1010	-.0920	-.1570	-.0540	-.0090
30.000	1.4030		.7010	.2400	-.1070	-.1800	-.2760	-.2340	.0870	.1710	.0250	-.1380	-.0790	-.0610	-.0850
60.000	1.4030		.6600	.1970	-.1290	-.2080	-.2970	-.2560	.1920	.1740	-.2830	-.0420	-.0140	-.0450	-.0280
90.000	1.4030	1.2690	.6110	.1500	-.1660	-.2440	-.3250	-.2840	.3580	-.3210	-.4780	-.0380	.0040	.0250	-.0300
120.000	1.4030		.5580	.1150	-.1970	-.2720	-.3420	-.3010	.1650	.0100	-.2770	-.0350	.0210	.0610	-.0920
135.000	1.4030							-.2980		.1530		-.1060		.0620	
150.000	1.4030		.5320	.0900	-.2160	-.2890	-.3580	-.0950	.0710	.1900	-.0080	-.1350	.0070	.0620	-.0930
165.000	1.4030			.0780	-.2210	-.2920	-.3630	-.0600	.0710	.2010	.0030		-.0780		-.0910
180.000	1.4030	1.2110	.5220	.0690	-.2250	-.2950	-.3650	-.1470	.0580	.2350	-.0090	-.1000	-.2360	.1190	-.0880
270.000	1.4030	1.2880													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0130	.0970	-.0130
30.000	-.0120	.0150	-.0120
60.000	.0680	.0290	-.0130
90.000			-.1150
120.000	-.0010	.1300	-.0080
135.000	-.0160	.1290	.0160
150.000	-.0370	.0940	-.0090
165.000		-.0280	-.0820
180.000	-.0580		

MACH (2) = 1.249 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3990	1.3520	.7050	.2490	-.0920	-.1690	-.2680	-.2250	-.1540	.2220	.0810	-.1070	-.1390	-.0700	-.0180
30.000	1.3990		.6350	.1810	-.1460	-.2150	-.3080	-.2650	.0840	.1920	.0160	-.1570	-.1220	-.0750	-.0830
60.000	1.3990		.5650	.1130	-.1890	-.2610	-.3410	-.3040	.0940	.2440	-.2170	-.0310	-.0660	-.0720	-.0300
90.000	1.3990	1.2000	.5160	.0640	-.2210	-.2940	-.3670	-.3260	.5670	-.3140	-.3890	-.0140	-.0860	.0070	-.0300
120.000	1.3990		.4810	.0470	-.2380	-.3070	-.3710	-.3110	.0670	.0890	-.2870	-.0270	-.0050	.0470	-.1250
135.000	1.3990							-.1710		.1980		-.1160		.0440	
150.000	1.3990		.4870	.0530	-.2400	-.3090	-.3710	-.0540	.0520	.1710	-.0110	-.2060	-.0070	.0280	-.1490
165.000	1.3990			.0580	-.2370	-.3070	-.3720	-.0440	.0660	.1990	-.0980		-.1490		-.1610
180.000	1.3990	1.2130	.5190	.0650	-.2300	-.2970	-.3690	-.1730	.0440	.3030	-.0900	-.1340	-.1820	.0870	-.1290
270.000	1.3990	1.3630													

X/LT	.7449	.8526	.9290

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 O&A + S3 + T9 EXTERNAL TANK (RBNT1B)

MACH (2) = 1.249 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0340	-.0040	-.0080
30.000	-.0350	-.0070	-.0280
60.000	.0890	-.0050	-.0290
90.000			-.0980
120.000	.0120	.0400	-.0990
135.000	-.0110	.0030	-.0970
150.000	-.0080	-.0730	-.1130
165.000		-.2250	-.1560
180.000	-.1520		

MACH (2) = 1.245 BETAT (5) = 8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3520	1.3070	.6800	.2250	-.1090	-.1650	-.2850	-.2470	-.1180	.1170	.0030	-.1460	-.1130	-.1080	-.0680
30.000	1.3520		.5560	.1170	-.2015	-.2670	-.3560	-.3190	.0810	.1590	.0040	-.1810	-.1400	-.1150	-.0840
60.000	1.3520		.4590	.0250	-.2610	-.3280	-.4030	-.3670	.0130	.3190	-.1400	-.0350	-.1220	-.1250	-.0800
90.000	1.3520	1.0790	.4140	-.0150	-.2870	-.3560	-.4180	-.0910	.5500	-.3070	-.2960	-.0460	-.2330	-.0230	-.0880
120.000	1.3520		.3890	-.0240	-.2900	-.3550	-.4140	-.0810	.0070	.1050	-.1490	-.1090	-.0820	.0120	-.1580
135.000	1.3520							-.0660		.1080		-.1530		.0000	
150.000	1.3520		.4180	-.0030	-.2820	-.3490	-.4100	-.0540	.0570	.2250	-.1240	-.2660	-.0750	-.0160	-.1940
165.000	1.3520			.0140	-.2680	-.3410	-.4060	-.1210	.0390	.2750	-.2510		-.2030		-.2470
180.000	1.3520	1.1660	.4840	.0480	-.2500	-.3210	-.3950	-.3510	.0460	.4260	-.2490	-.2730	-.1990	-.0200	-.1530
270.000	1.3520	1.3960													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0730	-.0070	-.0270
30.000	-.0430	-.0160	-.0480
60.000	.0990	-.0300	-.0480
90.000			-.1190
120.000	.0490	.0710	-.1210
135.000	.0320	.0410	-.1440
150.000	.0160	-.1330	-.1920
165.000		-.2150	-.1920
180.000	-.2730		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT19) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.[illegible] BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2570	1.2690	.6800	.2080	-.1560	-.2370	-.3450	-.2790	.1440	.1150	-.0550	-.1280	-.1050	-.0900	-.0380
30.000	1.2570		.7830	.3010	-.0750	-.1670	-.2780	-.2030	.2050	.0690	-.1620	.0040	-.0230	-.0040	-.0530
60.000	1.2570		.8090	.3280	-.0510	-.1440	-.2550	.1100	.3970	.0420	-.3750	.0040	.0390	.0590	.0420
90.000	1.2570	1.3000	.7460	.2650	-.1070	-.2020	-.3060	.2290	.4670	-.5240	-.3690	-.0620	.0660	.1010	.0380
120.000	1.2570		.6080	.1480	-.2140	-.2940	-.3840	-.0190	.1280	-.2690	-.1910	-.0770	.0670	.0940	-.0080
135.000	1.2570							-.0700		-.1050		.0080		.0600	
150.000	1.2570		.4740	.0310	-.3120	-.3890	-.4610	-.0470	.0440	.1080	-.0320	.1040	.0440	.0090	-.0630
165.000	1.2570			-.0260	-.3490	-.4210	-.0060	-.0600	.0470	.2480	-.1250		-.0510		-.1410
180.000	1.2570	1.0400	.3790	-.0700	-.3680	-.4420	-.0560	-.0510	.0420	.2520	-.2450	-.0470	-.0660	-.1330	-.2740
270.000	1.2570	1.0000													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0500	.0260	-.0460
30.000	-.0510	.1140	.0090
60.000	.0720	.1500	.0090
90.000			-.1650
120.000	.1980	.3370	.1210
135.000	.1990	.3680	.1040
150.000	.2210	.3890	.0750
165.000		.3870	.0970
180.000	.0590		

MACH (1) = 1.090 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2930	1.3050	.7080	.2280	-.1460	-.2260	-.3350	-.2720	.2080	.1950	.0030	-.1640	-.0690	-.0410	.0820
30.000	1.2930		.7430	.2920	-.1240	-.2060	-.3140	-.2410	.2350	.1670	-.0920	-.0360	-.0490	.0010	.0160
60.000	1.2930		.7185	.2340	-.1350	-.2210	-.3250	-.2300	.4010	.0810	-.3360	.0040	-.0200	.0330	.0370
90.000	1.2930	1.2560	.6450	.1630	-.1930	-.2800	-.3760	.0610	.4740	-.5390	-.3880	-.1140	.0330	.0720	.0090
120.000	1.2930		.5410	.0790	-.2700	-.3430	-.4260	-.0750	.1750	-.1980	-.2020	-.1070	.0600	.0580	-.0810
135.000	1.2930							-.0490		-.0080		.0320		.0340	
150.000	1.2930		.4550	.0060	-.3280	-.3970	-.4090	-.0570	.0640	.1710	-.1210	.0470	.0750	-.0020	-.0830

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT19)

MACH (1) = 1.098 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	950	.4489	.5027	.5565	.6372
PHI															
165.000	1.2930			-.0300	-.3490	-.4160	-.0890	-.0350	.0410	.2570	-.1570		.0520		-.0930
180.000	1.2930	1.0720	.4080	-.0590	-.3590	-.4260	-.0900	-.0370	.0430	.2360	-.0910	-.0490	.0410	-.0480	-.1460
270.000	1.2930	1.1100													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0200	-.0040	.0260
30.000	-.0200	.0390	.0330
60.000	.0730	.0730	.0030
90.000			-.1800
120.000	.1130	.2510	-.0130
135.000	.1310	.2640	.0340
150.000	.1690	.2600	.0300
165.000		.1480	.0430
180.000	.1140		

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3060	1.3140	.7160	.2310	-.1380	-.2270	-.3320	-.2700	.2240	.2090	.0160	-.1710	-.0350	.0090	.0780
30.000	1.3060		.6880	.2090	-.1700	-.2490	-.3520	-.2860	.2390	.1980	-.0710	-.1000	-.0500	.0180	.0040
60.000	1.3060		.6220	.1450	-.2110	-.2930	-.3890	-.2980	.3560	.1200	-.2920	-.0300	-.0370	.0360	.0360
90.000	1.3060	1.1930	.5450	.0780	-.2690	-.3510	-.4390	.0000	.4960	-.5680	-.3690	-.1250	.0350	.0290	-.0850
120.000	1.3060		.4890	.0130	-.3180	-.3920	-.4680	-.0410	.2210	-.1410	-.2290	-.0290	.0740	.0110	-.1280
135.000	1.3060							-.0560		.0740		.0970		-.0050	
150.000	1.3060		.4250	-.0230	-.3460	-.4150	-.1750	-.0700	.0540	.2060	-.1150	.0830	.0690	-.0360	-.1270
165.000	1.3060			-.0390	-.3530	-.4200	-.0830	-.0550	.0520	.2300	-.0370		.0660		-.1280
180.000	1.3060	1.0850	.4150	-.0490	-.3560	-.4220	-.0590	-.0350	.0600	.2340	-.0310	.0710	.0760	-.0230	-.1280
270.000	1.3060	1.1960													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0110	-.0290	.0100
30.000	-.0100	-.0170	.0130
60.000	.0680	.0110	-.0300
90.000			-.1650
120.000	.0780	.1460	-.0360
135.000	.0790	.1300	-.0460
150.000	.1200	.0820	-.0540

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT19)

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1150	-.0700
180.000	.1430		

MACH (1) = 1.103 BETAT (4) = 4.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2970	1.2960	.7010	.2260	-.1440	-.2350	-.3360	-.2720	.2170	.1850	-.0070	-.1850	-.0740	-.0290	.0590
30.000	1.2970		.6140	.1430	-.2210	-.2950	-.3950	-.3290	.2040	.1950	-.0060	-.1710	-.0940	-.0440	-.0220
60.000	1.2970		.5170	.0530	-.2820	-.3570	-.4500	-.0180	.1930	.1840	-.2240	-.1010	-.0840	-.0120	.0160
90.000	1.2970	1.1060	.4460	-.0140	-.3330	-.4030	-.4860	-.0420	.5450	-.5580	-.3970	-.1270	-.0190	-.0410	-.1210
120.000	1.2970		.3930	-.0540	-.3610	-.4250	-.3200	-.0520	.1510	-.0650	-.2270	.0630	.0610	-.0470	-.1800
135.000	1.2970							-.0550		.1540		.0570		-.0610	
150.000	1.2970		.3860	-.0620	-.3710	-.4360	-.0980	-.0630	.0410	.1790	-.1120	.0040	.0380	-.0910	-.1800
165.000	1.2970			-.0620	-.3660	-.4370	-.0570	-.0500	.0710	.2130	-.0430		.0360		-.1800
180.000	1.2970	1.0780	.4070	-.0560	-.3660	-.4300	-.0410	-.0400	.0490	.2380	-.0500	-.0860	.0410	-.0380	-.1820
270.000	1.2970	1.2660													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0310	-.0180	.0160
30.000	-.0300	-.0240	-.0090
60.000	.0540	.0170	-.0500
90.000			-.1430
120.000	.0710	.0760	-.1430
135.000	.0690	.0520	-.1040
150.000	.1020	-.0120	-.1340
165.000		-.1360	-.1720
180.000	.1280		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT19)

MACH (1) = 1.100 BETAT (5) = 8.280

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2530	1.2530	.6780	.2080	-.1530	-.2420	-.3500	-.2840	.1190	.0950	-.0650	-.1060	-.1120	-.0990	-.0430
30.000	1.2530		.5340	.0780	-.2730	-.3430	-.4430	-.3850	.1330	.1610	-.0630	-.2080	-.1460	-.1160	-.0940
60.000	1.2530		.4110	-.0360	-.3480	-.4240	-.4540	-.0810	.0790	.1880	-.1160	-.1710	-.1280	-.0800	-.0270
90.000	1.2530	.9860	.3480	-.0900	-.3900	-.4560	-.1030	-.0740	.4250	-.5270	-.3970	-.2450	-.0490	-.0680	-.1570
120.000	1.2530		.3150	-.1140	-.3990	-.4630	-.0910	-.0630	.0230	.0200	-.1290	-.0450	.0210	-.1000	-.2470
135.000	1.2530							-.0700		.0940		-.0360		-.1210	
150.000	1.2530		.3250	-.1020	-.3980	-.4630	-.0780	-.0670	.0210	.2060	-.2280	-.0970	-.0070	-.1560	-.2660
165.000	1.2530			-.0910	-.3930	-.4570	-.0760	-.0550	.0190	.1930	-.3590		-.0280		-.3450
180.000	1.2530	1.0350	.3770	-.0700	-.3820	-.4470	-.1170	-.0720	.0140	.3010	-.3590	-.2690	.0010	-.1710	-.2750
270.000	1.2530	1.3010													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0810	.0270	-.0530
30.000	-.0750	-.0020	-.0620
60.000	.0430	.0340	-.0630
90.000			-.1380
120.000	.0850	.0540	-.1380
135.000	.0980	-.0040	-.1940
150.000	.1010	-.1880	-.2230
165.000		-.2350	-.2230
180.000	.0550		

MACH (2) = 1.246 BETAT (1) = -8.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3380	1.3470	.7930	.2760	-.0690	-.1510	-.2550	-.2120	-.1150	.1390	.0400	-.1020	-.0910	-.0820	-.0620
30.000	1.3380		.6360	.3650	-.0010	-.0770	-.1930	-.1410	.1880	.1110	-.0710	-.0670	.0030	-.0100	-.0610
60.000	1.3380		.6650	.3880	.0260	-.0630	-.1690	-.1210	.4270	.1530	-.3090	-.0370	.0440	.0440	.0280
90.000	1.3380	1.3780	.6020	.3290	-.0240	-.1110	-.2110	-.1740	.5210	-.3500	-.3420	-.1160	.0130	.1010	.0310
120.000	1.3380		.6690	.2160	-.1210	-.2020	-.2850	-.2510	.1070	-.1990	-.2520	-.1460	-.0080	.1030	.0320
135.000	1.3380							-.2970		-.0980		-.1220		.0870	
150.000	1.3380		.5340	.1020	-.2150	-.2880	-.3600	-.3310	.0420	.1310	.1080	-.1250	.0100	.0450	.0310
165.000	1.3380			.0470	-.2490	-.3220	-.3870	-.3510	.0170	.2960	.0230		-.0280		.0290
180.000	1.3380	1.1130	.4370	.0090	-.2740	-.3430	-.4100	-.1190	-.0080	.2880	-.0250	-.1360	-.2090	-.2160	-.0970
270.000	1.3380	1.0710													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7DT IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT19)

MACH (2) = 1.246 BETAT (1) = -3.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8326	.9290
PHI			
.000	-.0740	.0300	.0060
30.000	-.0740	.0270	.0660
60.000	.0490	.0660	.0620
90.000			-.2940
120.000	.1170	.3510	.1530
135.000	.1180	.3960	.1990
150.000	.1270	.4070	.1740
165.000		.4200	.2000
180.000	-.1060		

MACH (2) = 1.250 BETAT (2) = -4.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3760	1.3820	.7610	.2930	-.0520	-.1330	-.2390	-.1960	-.1310	.2450	.1050	-.0730	-.1040	-.0450	-.0150
30.000	1.3760		.7970	.3200	-.0320	-.1100	-.2160	-.1700	.1300	.1700	.0480	-.0910	-.0110	-.0240	-.0540
60.000	1.3760		.7730	.3100	-.0460	-.1290	-.2190	-.1830	.3420	.1810	-.2770	-.0340	.0240	.0110	-.0070
90.000	1.3760	1.3370	.7020	.2400	-.0970	-.1810	-.2710	-.2340	.5060	-.3400	-.3810	-.1310	.0110	.0720	.0250
120.000	1.3760		.6020	.1530	-.1670	-.2440	-.3220	-.2850	.1050	-.1150	-.1710	-.1480	.0200	.0810	-.0060
135.000	1.3760							-.3130		.0090		-.2090		.0620	
150.000	1.3760		.5170	.0840	-.2220	-.2950	-.3620	-.3270	.0740	.2220	-.0250	-.0980	-.0180	.0720	-.0260
165.000	1.3760			.0500	-.2430	-.3100	-.3770	-.2980	.0470	.2800	-.0460		-.0990		-.0490
180.000	1.3760	1.1470	.4640	.0280	-.2520	-.3200	-.3880	-.0570	.0380	.2800	-.0460	-.0940	-.2110	.1170	-.0870
270.000	1.3760	1.1830													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0320	.0160	.0110
30.000	-.0320	.0450	.0360
60.000	.0590	.0530	.0290
90.000			-.2000
120.000	.0590	.2740	.1450
135.000	.0230	.2900	.1410
150.000	.0010	.2820	.1470
165.000		.1670	.1470
180.000	-.1080		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT19)

AMES 11-7D7 IA9 O2A + S5 + T9 EXTERNAL TANK

MACH (2) = 1.247 BETAT (3) = .010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3910	1.3900	.7740	.3010	-.0500	-.1320	-.2340	-.1950	-.1210	.2670	.1220	-.0630	-.1090	-.0350	-.0090
30.000	1.3910		.7460	.2820	-.0750	-.1510	-.2510	-.2090	.0990	.2120	.0470	-.1030	-.0800	-.0470	-.0340
60.000	1.3910		.6810	.2210	-.1170	-.1930	-.2840	-.2450	.2190	.2270	-.2240	-.0270	-.0160	-.0340	-.0200
90.000	1.3910	1.2720	.6060	.1480	-.1680	-.2490	-.3280	-.2880	.5320	-.3520	-.4260	-.1780	-.0540	.0260	-.0270
120.000	1.3910		.5310	.0870	-.2140	-.2880	-.3600	-.3160	.1330	-.0590	-.2290	-.1170	.0320	.0810	-.0370
135.000	1.3910							-.2380		.1040		-.1700		.0830	
150.000	1.3910		.4890	.0560	-.2410	-.3120	-.3750	-.0420	.0340	.1570	-.0070	-.1240	.0110	.0740	-.0570
165.000	1.3910			.0410	-.2480	-.3140	-.3760	-.0160	.0350	.1910	.0490		-.0900		-.0530
180.000	1.3910	1.1620	.4770	.0330	-.2500	-.3160	-.3840	-.0250	.0340	.1970	.0670	-.0850	-.1730	.1210	-.0520
270.000	1.3910	1.2750													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0150	.0220	.0100
30.000	-.0150	.0280	.0100
60.000	.0760	.0380	.0100
90.000			-.0850
120.000	.0290	.1540	.0300
135.000	.0300	.1360	.0480
150.000	.0610	.0960	.0930
165.000		-.0420	.0050
180.000	.0480		

MACH (2) = 1.245 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3820	1.3790	.7550	.2940	-.0570	-.1360	-.2390	-.1960	-.1280	.2320	.0930	-.0770	-.1000	-.0360	-.0130
30.000	1.3820		.6730	.2170	-.1200	-.1920	-.2920	-.2470	.0900	.2240	.0540	-.1280	-.1000	-.0690	-.0780
60.000	1.3820		.5790	.1280	-.1820	-.2590	-.3400	-.3000	.1140	.2930	-.1630	-.0300	-.0560	-.0680	-.0300
90.000	1.3820	1.1850	.5100	.0620	-.2290	-.3070	-.3800	-.3390	.5380	-.3510	-.4000	-.1850	-.1320	-.0160	-.0480
120.000	1.3820		.4540	.0260	-.2560	-.3260	-.3900	-.3360	.0530	.0040	-.1620	-.0690	.0280	.0580	-.1040
135.000	1.3820							-.1620		.1770		-.1770		.0540	
150.000	1.3820		.4470	.0200	-.2620	-.3320	-.3940	-.0670	.0200	.1540	.0010	-.1910	-.0030	.0450	-.1040
165.000	1.3820			.0210	-.2610	-.3290	-.3930	-.0400	.0350	.1960	-.0130		-.1900		-.1210
180.000	1.3820	1.1620	.4710	.0250	-.2560	-.3230	-.3930	-.0430	.0280	.2310	-.0610	-.1080	-.2090	.1090	-.0930
270.000	1.3820	1.3460													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBHT19)

MACH (2) = 1.245 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0290	.0180	.0090
30.000	-.0300	.0070	-.0120
60.000	.0880	.0140	-.0350
90.000			-.0930
120.000	.0550	.0870	-.0510
135.000	.0540	.0840	.0150
150.000	.0750	.0160	-.0190
165.000		-.2140	-.1340
180.000	-.0980		

MACH (2) = 1.244 BETAT (5) = 8.230

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3390	1.3320	.7310	.2710	-.0710	-.1510	-.2510	-.2150	-.0850	.1270	.0200	-.1090	-.0840	-.0850	-.0540
30.000	1.3390		.5910	.1470	-.1820	-.2480	-.3410	-.3020	.0930	.1870	.0220	-.1390	-.1220	-.1100	-.1170
60.000	1.3390		.4710	.0370	-.2580	-.3260	-.4000	-.3660	.0500	.3480	-.0840	-.0420	-.1080	-.1310	-.0990
90.000	1.3390	1.0660	.4070	-.0220	-.2930	-.3620	-.4230	-.0910	.5120	-.3440	-.3010	-.1640	-.2950	-.0520	-.1200
120.000	1.3390		.3680	-.0400	-.3020	-.3630	-.4220	-.0850	.0170	.0610	-.0870	-.0690	-.0730	.0230	-.1410
135.000	1.3390							-.0730		.1220		-.1410		.0190	
150.000	1.3390		.3840	-.0300	-.3000	-.3650	-.4240	-.0820	.0610	.2300	-.0920	-.2600	-.1320	.0030	-.1410
165.000	1.3390			-.0200	-.2920	-.3610	-.4210	-.1100	.0110	.2240	-.1770		-.2900		-.2210
180.000	1.3390	1.1180	.4340	.0050	-.2830	-.3480	-.4210	-.1420	-.0050	.2820	-.1790	-.1790	-.1730	-.1600	-.1170
270.000	1.3390	1.3820													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0720	.0140	-.0020
30.000	-.0540	-.0120	-.0310
60.000	.0960	.0010	-.0290
90.000			-.1090
120.000	.0750	.0780	-.1090
135.000	.0750	.0460	-.1380
150.000	.0650	-.1040	-.1050
165.000		-.2100	-.1860
180.000	-.2050		

DATE 24 SEP 73 TABULATED PRESSURE DATA - 149A

AMES 11-707 1A9 OEA + S3 + T9 EXTERNAL TANK (RBNT20) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.10. BETAT (1) = -8.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2310	1.2830	.7250	.2550	-.1160	-.2080	-.3130	-.2430	.1400	.1170	-.0320	-.0600	-.0710	-.0770	-.0380
30.000	1.2310		.8290	.3430	-.0410	-.1320	-.2450	-.1610	.2320	.1150	-.1300	.0360	-.0040	.0100	-.0410
60.000	1.2310		.8310	.3500	-.0370	-.1260	-.2410	.1630	.4290	.0790	-.3010	.0560	.0270	.0610	.0990
90.000	1.2310	1.2760	.7300	.2520	-.1190	-.2110	-.3140	.2420	.4320	-.5520	-.3320	-.1610	-.0130	.0050	.0590
120.000	1.2310		.5650	.1080	-.2480	-.3220	-.4140	-.0470	.0500	-.3510	-.3380	-.1570	.0510	.1290	.0320
135.000	1.2310							-.0580		-.2270		-.1030		.0830	
150.000	1.2310		.4230	-.0200	-.3550	-.4210	-.4010	-.0650	-.0020	.0560	-.0370	-.0090	.0300	.0350	-.0190
165.000	1.2310			-.0760	-.3880	-.4560	-.0870	-.0850	.0190	.2010	-.1030		-.0960		-.0880
180.000	1.2310	.9800	.3300	-.1110	-.4030	-.4700	-.0690	-.0720	.0100	.1800	-.0990	-.1350	-.0240	-.1270	-.2220
270.000	1.2310	.97.0													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0440	.0330	-.0360
30.000	.0070	.1270	.0340
60.000	.0990	.1810	.0340
90.000			-.1540
120.000	.2200	.3540	.0920
135.000	.2200	.3920	.1290
150.000	.2440	.4220	.1010
165.000		.4060	.1010
180.000	.0650		

MACH (1) = 1.101 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2700	1.3210	.7580	.2770	-.1050	-.1930	-.2990	-.2320	.2300	.2130	.0300	-.1060	-.0290	-.0300	.0630
30.000	1.2700		.7880	.2990	-.0920	-.1730	-.2810	-.2080	.2730	.1900	-.0820	-.0410	-.0210	.0090	.0230
60.000	1.2700		.7350	.2550	-.1190	-.2020	-.3080	-.2290	.4330	.1170	-.2650	.0120	-.0080	.0420	.0680
90.000	1.2700	1.2370	.6300	.1550	-.2050	-.2870	-.3820	.0790	.4360	-.5730	-.3460	-.2230	-.0030	.0650	.0190
120.000	1.2700		.5000	.0470	-.2980	-.3690	-.4530	-.0750	.0950	-.2810	-.3290	-.1250	.0550	.0800	-.0300
135.000	1.2700							-.0580		-.0680		-.0310		.0490	
150.000	1.2700		.4070	-.0370	-.3580	-.4280	-.2430	-.0720	.0320	.1250	-.0950	-.0050	.0770	.0190	-.0470

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-FOT IA9 C2A + S3 + T9 EXTERNAL TANK (RENTZO)

MACH (1) = 1.101 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.2700			-.0760	-.3820	-.4400	-.0830	-.0650	.0290	.2120	-.0570		.0590		-.0680
180.000	1.2700	1.0130	.3540	-.0990	-.3910	-.4430	-.0620	-.0570	.0300	.2030	-.0460	-.0450	.0430	-.0350	-.1170
270.000	1.2700	1.0870													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0120	.0160	.0210
30.000	-.0010	.0650	.0350
60.000	.0950	.0990	.0070
90.000			-.1630
120.000	.1490	.2740	.0200
135.000	.1490	.2770	.0410
150.000	.1690	.2770	.0220
165.000		.2170	.0380
180.000	.1110		

MACH (2) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2840	1.3300	.7680	.2850	-.0980	-.1910	-.2080	-.2300	.2390	.2320	.0400	-.1050	-.0060	.0010	.0830
30.000	1.2840		.7290	.2450	-.1410	-.2220	-.3300	-.2590	.2510	.2190	-.0340	-.0470	-.0210	.0070	.0030
60.000	1.2840		.6350	.1570	-.2030	-.2880	-.3870	-.2840	.3610	.1590	-.2380	-.0360	-.0200	.0340	.0440
90.000	1.2840	1.1710	.5290	.0610	-.2810	-.3650	-.4540	-.0230	.4450	-.6030	-.3620	-.2610	.0080	.0330	-.0440
120.000	1.2840		.4340	-.0190	-.3440	-.4160	-.4930	-.0770	.1430	-.2110	-.3060	-.0910	.0700	.0240	-.0910
135.000	1.2840							-.0800		.0180		.0580		.0100	
150.000	1.2840		.3850	-.0600	-.3750	-.4420	-.1470	-.0980	.0190	.1700	-.0600	.0440	.0700	-.0150	-.0750
165.000	1.2840			-.0790	-.3800	-.4480	-.0870	-.0840	.0180	.1960	-.0010		.0710		-.0830
180.000	1.2840	1.0310	.3700	-.0920	-.3840	-.4490	-.0580	-.0700	.0380	.1950	.0380	.0320	.0880	.0020	-.0810
270.000	1.2840	1.1820													

X/LT	.7449	.8526	.9290
PHI			
.000	.0070	-.0080	.0120
30.000	.0080	.0000	.0000
60.000	.0830	.0270	-.0430
90.000			-.1490
120.000	.0830	.1600	-.0680
135.000	.0930	.1530	-.0460
150.000	.1280	.1070	-.0480

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNTZD)

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.0840	-.0850
180.000	.1530		

MACH (1) = 1.100 BETAT (4) = 4.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.01	.0492	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2750	1.3110	.7480	.2720	-.1020	-.1990	-.3020	-.2340	.2220	.2040	.0220	-.1050	-.0360	-.0380	.0550
30.000	1.2750		.6500	.1780	-.1900	-.2690	-.3730	-.3080	.2460	.2180	.0090	-.1250	-.0740	-.0800	-.0290
60.000	1.2750		.5240	.0620	-.2750	-.3800	-.4440	-.0280	.2460	.2000	-..290	-.0930	-.0580	-.0290	.0190
90.000	1.2750	1.0830	.4260	-.0260	-.3440	-.4210	-.4960	-.0730	.5030	-.5920	-.4160	-.1700	-.0020	-.0270	-.0820
120.000	1.2750		.3610	-.0780	-.3830	-.4460	-.2600	-.0740	.0910	-.1280	-.2810	.0310	.0580	-.0240	-.1370
135.000	1.2750							-.0800		.1130		.0590		-.0400	
150.000	1.2750		.3470	-.0910	-.3930	-.4590	-.1060	-.0890	.0160	.1570	-.0810	-.0130	.0380	-.0710	-.1560
165.000	1.2750			-.0950	-.3900	-.4540	-.0780	-.0750	.0250	.1900	-.0290		.0360		-.1560
180.000	1.2750	1.0250	.3660	-.0910	-.3910	-.4490	-.0660	-.0530	.0290	.1980	-.0310	-.0920	.0380	-.0420	-.1240
270.000	1.2750	1.2500													

X/LT	.7449	.8526	.9290
PHI			
.000	.0070	-.0040	.0240
0.000	.0070	-.0210	.0020
60.000	.0830	.0280	-.0450
90.000			-.1290
120.000	.0830	.0710	-.1290
135.000	.0830	.0890	-.1100
150.000	.0900	-.0080	-.1440
165.000		-.1670	-.1660
180.000	.1110		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CBA + S3 + T9 EXTERNAL TANK (RENTED)

MACH (1) = 1.099 BETAT (5) = 8.300

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2310	1.2680	.7220	.2570	-.1170	-.2050	-.3140	-.2510	.1310	.1110	-.0370	-.0600	-.0740	-.0830	-.0480
30.000	1.2310		.3690	.1080	-.2500	-.3240	-.4250	-.3680	.1510	.1190	-.0360	-.1560	-.1270	-.1240	-.1200
60.000	1.2310		.4140	-.0340	-.3510	-.4230	-.5100	-.0520	.0900	.2020	-.0720	-.1550	-.1030	-.0810	-.0280
90.000	1.2310	.9660	.3290	-.1140	-.4040	-.4730	-.1690	-.1110	.5000	-.5770	-.5530	-.1920	-.0950	-.1230	-.1810
120.000	1.2310		.2890	-.1360	-.4180	-.4770	-.1160	-.0850	-.0060	-.0600	-.2010	-.0530	.0120	-.0870	-.2170
135.000	1.2310							-.0830		.1140		-.0500		-.1170	
150.000	1.2310		.2900	-.1320	-.4200	-.4760	-.1080	-.0850	-.0110	.1010	-.1100	-.1100	-.0180	-.1380	-.1910
165.000	1.2310			-.1290	-.4170	-.4580	-.0960	-.0880	-.0050	.1620	-.0930		-.0120		-.2670
180.000	1.2310	.9810	.3320	-.1100	-.4100	-.4610	-.0780	-.0710	.0070	.1730	-.1260	-.1890	-.0040	-.1410	-.2100
270.000	1.2310	1.2830													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0190	.0300	-.0390
30.000	-.0220	-.0170	-.0810
60.000	.0370	.0320	-.0760
90.000			-.1430
120.000	.0380	.0370	-.1440
135.000	.1070	-.0230	-.2040
150.000	.1140	-.1950	-.2030
165.000		-.2460	-.2140
180.000	.0690		

MACH (2) = 1.246 BETAT (1) = -8.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3070	1.3570	.7760	.3200	-.0360	-.1180	-.2230	-.1760	-.0650	.1440	.0600	-.0310	-.0460	-.0470	-.0330
30.000	1.3070		.8800	.4100	.0370	-.0460	-.1570	-.1040	.2320	.1590	-.0430	-.0220	.0440	.0180	-.0320
60.000	1.3070		.8840	.4150	.0430	-.0430	-.1510	-.1040	.4720	.1930	-.2420	.0130	.0740	.0580	.0320
90.000	1.3070	1.3500	.7830	.3180	-.0330	-.1190	-.2130	-.1710	.5000	-.3570	-.3370	-.1720	-.0820	.0550	.0890
120.000	1.3070		.6230	.1820	-.1510	-.2260	-.3080	-.2710	.0350	-.2910	-.3770	-.1740	-.0040	.1110	.0890
135.000	1.3070							-.3230		-.1720		-.1570		.0920	
150.000	1.3070		.4750	.0520	-.2510	-.3140	-.3900	-.3570	-.0160	-.0730	.0950	-.1270	.0210	.0420	.0890
165.000	1.3070			.0010	-.2840	-.3460	-.4140	-.2070	-.0190	.2120	.0270		-.0120		.0440
180.000	1.3070	1.0490	.3830	-.0340	-.3000	-.3650	-.4300	-.0700	-.0370	.2150	-.0720	-.1240	-.2140	-.2460	-.0780
270.000	1.3070	1.0450													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7X7 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT2D)

MACH (2) = 1.246 BETAT (1) = -8.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.1080	.0500	.0300
30.000	.0010	.0540	.0940
60.000	.1030	.0680	.0880
90.000			-.2790
120.000	.1800	.3690	.2030
135.000	.1830	.4090	.2130
150.000	.1970	.4350	.1890
165.000		.4370	.2060
180.000	.0650		

MACH (2) = 1.248 BETAT (2) = -4.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3520	1.3960	.8070	.3420	-.0090	-.0930	-.2060	-.1650	-.1000	.2640	.1340	-.0390	-.0550	-.0190	-.0020
30.000	1.3520		.8390	.3710	.0080	-.0750	-.1880	-.1410	.1670	.1960	.0760	-.0500	.0190	-.0090	-.0380
60.000	1.3520		.7910	.3310	-.0240	-.1160	-.2110	-.1720	.3740	.2230	-.2150	.0130	.0360	.0190	-.0020
90.000	1.3520	1.3130	.6870	.2380	-.1020	-.1910	-.2780	-.2430	.4850	-.3640	-.3590	-.2260	-.0700	.0520	.0330
120.000	1.3520		.5580	.1300	-.1870	-.2680	-.3430	-.3100	.0390	-.2130	-.2790	-.2020	-.0020	.0980	.0250
135.000	1.3520							-.3380		-.0710		-.2110		.0760	
150.000	1.3520		.4670	.0480	-.2480	-.3240	-.3920	-.3510	.0470	.1580	.0280	-.1190	-.0520	.0990	-.0120
165.000	1.3520			.0140	-.2680	-.3380	-.3990	-.1940	.0240	.2220	-.0340		-.1360		-.0310
180.000	1.3520	1.0890	.4160	-.0070	-.2770	-.3440	-.4090	-.0570	.0050	.2000	-.0400	-.0770	-.2240	.1380	-.0670
270.000	1.3520	1.1600													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0510	.0310	.0320
30.000	-.0520	.0600	.0520
60.000	.0860	.0810	.0500
90.000			-.2170
120.000	.0880	.2960	.1360
135.000	.0870	.3170	.1380
150.000	.1170	.3140	.1260
165.000		.1700	.1420
180.000	.1120		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 EXTERNAL TANK (ROUTED)

MACH (2) = 1.245 BETAT (3) = .010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3680	1.4060	.8180	.3490	-.0140	-.0990	-.2030	-.1620	-.0930	.2980	.1780	-.0310	-.0380	-.0110	.0140
30.000	1.3660		.7810	.3140	-.0480	-.1250	-.2280	-.1840	.1160	.2540	.0740	-.0630	-.0300	-.0210	-.0380
60.000	1.3660		.6880	.2280	-.1090	-.1880	-.2780	-.2410	.2490	.2730	-.1580	.0140	-.0180	-.0120	-.0240
90.000	1.3660	1.2470	.5880	.1340	-.1820	-.2590	-.3390	-.2990	.4960	-.3790	-.3970	-.3490	-.0590	.0420	-.0110
120.000	1.3660		.4900	.0580	-.2410	-.3100	-.3790	-.3360	.0960	-.1460	-.3010	-.1490	.0900	.0790	-.0380
135.000	1.3660							-.2330		.0470		-.1930		.0830	
150.000	1.3660		.4370	.0200	-.2670	-.3350	-.3970	-.0620	.0060	.1520	-.0140	-.1390	.0200	.0850	-.0350
165.000	1.3660			.0030	-.2760	-.3400	-.3650	-.0420	.0080	.1660	.0580		-.0840		-.0270
180.000	1.3660	1.1050	.4230	-.0050	-.2790	-.3420	-.3460	-.0380	.0090	.1720	.0610	-.0610	-.1710	.1240	-.0090
270.000	1.3660	1.2520													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0290	.0340	.0310
30.000	-.0290	.0430	.0290
60.000	.0690	.0470	.0000
90.000			-.0770
120.000	.0680	.1810	-.0050
135.000	.0670	.1640	.0510
150.000	.1040	.1110	.0510
165.000		-.0430	.0310
180.000	.1280		

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3540	1.3840	.8000	.3360	-.0200	-.1050	-.2070	-.1620	-.0380	.2570	.1220	-.0430	-.0480	-.0230	.0010
30.000	1.3540		.7020	.2480	-.0940	-.1710	-.2650	-.2260	.0180	.2600	.1220	-.0830	-.0640	-.0520	-.1000
60.000	1.3540		.5820	.1370	-.1770	-.2480	-.3360	-.3040	.1420	.3460	-.0930	-.0100	-.0540	-.0490	-.0390
90.000	1.3540	1.1970	.4850	.0480	-.2430	-.3150	-.3870	-.3250	.5010	-.3770	-.4160	-.3500	-.0990	-.0170	-.0330
120.000	1.3540		.4160	.0010	-.2790	-.3430	-.4060	-.2630	.0160	-.0790	-.2930	-.0730	.0300	.0570	-.0780
135.000	1.3540							-.1030		.1330		-.1930		.0800	
150.000	1.3540		.4020	-.0130	-.2880	-.3480	-.4040	-.0730	-.0060	.1340	.0140	-.1820	-.0930	.0600	-.0970
165.000	1.3540			-.0150	-.2890	-.3470	-.3950	-.0550	.0080	.1860	.0400		-.2170		-.0950
180.000	1.3540	1.0970	.4190	-.0130	-.2870	-.3460	-.4090	-.0640	.0130	.1840	.0030	-.0760	-.2330	.1310	-.0880
270.000	1.3540	1.3180													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OPA + S3 + T9 EXTERNAL TANK (RBNT2D)

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0450	.0270	.0230
30.000	-.0440	.0140	-.0020
60.000	.0620	.0230	-.0300
90.000			-.0800
120.000	.0810	.0990	-.0810
135.000	.0770	.1020	-.0240
150.000	.1100	.0790	-.0810
165.000		-.2380	-.1260
180.000	.1680		

MACH (2) = 1.243 BETAT (5) = 7.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3260	1.3580	.7870	.3280	-.0240	-.1090	-.2150	-.1750	-.0970	.1760	.0690	-.0620	-.0470	-.0390	-.0270
30.000	1.3260		.6430	.1980	-.1390	-.2100	-.3100	-.2700	.0380	.2230	.0700	-.0970	-.0900	-.0850	-.1390
60.000	1.3260		.5020	.0670	-.2360	-.3050	-.3870	-.3570	.1000	.3290	-.0490	-.0350	-.0910	-.0830	-.0480
90.000	1.3260	1.0750	.4110	-.0140	-.2920	-.3610	-.4250	-.1030	.4970	-.3800	-.4380	-.3250	-.1840	-.0630	-.0680
120.000	1.3260		.3610	-.0460	-.3090	-.3700	-.4250	-.0820	-.0210	-.0430	-.1640	-.0550	.0040	.0270	-.0980
135.000	1.3260							-.0760		.1160		-.1240		.0220	
150.000	1.3260		.3600	-.0420	-.3100	-.3700	-.4250	-.0800	.0250	.1620	-.0030	-.2140	-.1090	.0040	-.0980
165.000	1.3260			-.0390	-.3080	-.3700	-.4230	-.0860	-.0130	.1720	-.0660		-.2780		-.1470
180.000	1.3260	1.0690	.3950	-.0240	-.3040	-.3650	-.4100	-.0680	-.0230	.1890	-.0690	-.0990	-.2140	-.0690	-.0890
270.000	1.3260	1.3540													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0750	.0030	.0470
30.000	-.0750	.0310	-.0030
60.000	.0410	.0320	-.0270
90.000			-.0700
120.000	.0430	.0700	-.0700
135.000	.1020	.0340	-.1150
150.000	.1180	-.0810	-.1550
165.000		-.1890	-.1600
180.000	.0450		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDEP = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.100 BETAT (1) = -8.170

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2350	.9920	.3320	-.0930	-.3940	-.4570	-.2280	-.1040	.0100	.0770	-.1840	-.2870	-.1060	-.0520	-.0180
30.000	1.2350		.4220	-.0340	-.3440	-.4140	-.4990	-.1410	-.0190	-.1730	-.4440	-.1490	-.1220	-.1180	-.1010
60.000	1.2350		.5730	.1080	-.2380	-.3130	-.4070	.0110	.0330	-.3490	-.5500	-.2000	-.1010	-.1230	-.0320
90.000	1.2350	1.2750	.7260	.2510	-.1160	-.2090	-.3100	.3190	.4640	-.5190	-.3690	-.4160	-.0610	-.1280	-.0900
120.000	1.2350		.8180	.3440	-.0410	-.1300	-.2340	.2920	.5130	.1980	.2450	.1790	.1250	.0190	-.1790
135.000	1.2350							.2250		.3230		.1840		.0120	
150.000	1.2350		.8200	.3450	-.0460	-.1300	-.2350	-.0720	.4330	.4150	.1840	.1460	.0980	-.0670	-.1940
165.000	1.2350			.3060	-.0760	-.1590	-.2630	-.1560	.4330	.4960	.0600		.0140		-.2080
180.000	1.2350	1.2670	.7180	.2440	-.127.	-.2050	-.3120	-.2190	.4250	.4870	-.1830	.1470	-.0820	-.2180	-.4300
270.000	1.2350	.9720													

X/LT	.7445	.8526	.9290
PHI			
.000	-.0640	.0190	-.0780
30.000	-.0640	-.0150	-.0450
60.000	-.0230	-.0290	-.1100
90.000			-.2370
120.000	.1520	.1830	-.1170
135.000	.1530	.2280	-.1040
150.000	.1700	.2720	-.1030
165.000		.2060	-.0750
180.000	.0340		

MACH (1) = 1.104 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2770	1.0280	.3580	-.0880	-.3810	-.4450	-.4610	-.0970	.0310	.0770	-.1180	-.3220	-.0730	-.0050	-.0200
30.000	1.2770		.4050	-.0510	-.3580	-.4240	-.5160	-.1180	.0370	-.0690	-.3700	-.1620	-.1060	-.0580	-.0910
60.000	1.2770		.5070	.0430	-.2910	-.3800	-.4670	-.0670	.0490	-.3460	-.5630	-.2400	-.1140	-.0730	-.0800
90.000	1.2770	1.2420	.6290	.1540	-.2020	-.2950	-.3960	.1270	.4560	-.5720	-.4010	-.4270	-.2000	-.1580	-.1180
120.000	1.2770		.7290	.2560	-.1180	-.2170	-.3140	.1490	.5280	.2140	.1560	.1520	.0470	-.0520	-.2580
135.000	1.2770							-.1180		.3290		.1700		-.0580	
150.000	1.2770		.7840	.3040	-.0880	-.1770	-.2790	-.1560	.4730	.4040	-.0490	.1820	.0585	-.1560	-.2370

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

MACH (1) = 1.154 BETAT (2) = -4.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2356	.2874	.3412	.3950	.4489	.5027	.5589	.6372
PHI															
165.000	1.2770			.2950	-.0880	-.1890	-.2830	-.2220	.4790	.4830	-.0980		.0080		-.3130
180.000	1.2770	1.3140	.7520	.2680	-.1100	-.2030	-.3060	-.2380	.4820	.5070	-.2020	.1390	-.0040	-.1850	-.3580
270.000	1.2770	1.0830													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0730	.0020	-.1000
30.000	-.0730	-.0100	-.0980
60.000	-.0530	-.0160	-.0970
90.000			-.1580
120.000	.1140	.0820	-.1590
135.000	.1300	.1090	-.2290
150.000	.1870	.1090	-.2210
165.000		-.0380	-.1940
180.000	.1290		

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2358	.2874	.3412	.3950	.4489	.5027	.5589	.6372
PHI															
.000	1.2870	1.0290	.3640	-.0820	-.3770	-.4470	-.5280	-.1150	.0330	.0990	-.0980	-.3490	-.0350	.0280	.0030
30.000	1.2870		.3780	-.0780	-.3790	-.4420	-.5280	-.1340	.0320	.0180	-.2930	-.1820	-.0900	.0080	-.0780
60.000	1.2870		.4330	-.0280	-.3490	-.4280	-.5080	-.1270	.1070	-.3020	-.4350	-.2230	-.1050	-.1540	-.0650
90.000	1.2870	1.1710	.5230	.0540	-.2860	-.3740	-.4850	.0120	.4310	-.5490	-.4840	-.4040	-.0440	-.1980	-.1140
120.000	1.2870		.6230	.1580	-.2100	-.2970	-.3090	.1150	.5170	.2480	-.0095	.1280	.0290	-.1150	-.2020
135.000	1.2870							.0740		.3270		.1340		-.1250	
150.000	1.2870		.7290	.2480	-.1350	-.2300	-.3290	-.1790	.4580	.3810	-.1970	.1330	.0090	-.1840	-.3120
165.000	1.2870			.2840	-.1170	-.2130	-.3110	-.2410	.4740	.4820	-.2660		.0140		-.3090
180.000	1.2870	1.3280	.7990	.2670	-.1140	-.2020	-.3090	-.2380	.4900	.5180	-.2650	.1790	.0280	-.1730	-.3100
270.000	1.2870	1.1720													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0781	.0100	-.0770
30.000	-.0781	-.0050	-.0910
60.000	-.0910	-.0180	-.0720
90.000			-.1870
120.000	.1084	.0170	-.2360
135.000	.1121	.0130	-.2720
150.000	.1271	-.0270	-.2570

AMES 11-7?? IA9 OEA + S3 + T9 EXTERNAL TANK (RUN?21)

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1830	-.2770
180.000	.1470		

MACH (1) = 1.151 BETAT (4) = 4.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1909	.2121	.2556	.2974	.3412	.3990	.4489	.5027	.5505	.6372
PHI															
.000	1.2730	1.0180	.3570	-.0880	-.3780	-.4390	-.5220	-.1160	.0850	.0790	-.1380	-.3180	-.0880	.0070	-.0100
30.000	1.2730		.3400	-.0980	-.3680	-.4450	-.4260	-.1160	.0800	.0190	-.2980	-.2720	-.0590	-.0030	-.0800
60.000	1.2730		.3080	-.0790	-.3730	-.4370	-.1990	-.1240	-.0200	-.2230	-.3010	-.2540	-.0570	-.0880	-.1770
90.000	1.2730	1.0790	.4230	-.0290	-.3420	-.4330	-.0870	-.0520	.9600	-.3440	-.4070	-.4020	-.1280	-.1490	-.1420
120.000	1.2730		.3180	.0820	-.2740	-.3840	-.4580	.0180	.9010	.2680	-.0780	.1700	-.0140	-.1830	-.3540
135.000	1.2730							-.0100		.3170		.0920		-.2220	
150.000	1.2730		.6480	.1870	-.1780	-.2810	-.3790	-.2230	.4270	.3330	-.2080	.1040	-.0490	-.2500	-.3940
165.000	1.2730			.2330	-.1420	-.2580	-.3580	-.2570	.4540	.4130	-.3490		-.0260		-.3880
180.000	1.2730	1.3110	.7550	.2890	-.1060	-.2090	-.3120	-.2490	.4770	.5090	-.3510	.1590	.0000	-.1810	-.3520
270.000	1.2730	1.2370													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0780	.0070	-.1110
30.000	-.0540	.0150	-.1100
60.000	-.0480	.0070	-.0930
90.000			-.2120
120.000	.0780	-.0640	-.2130
135.000	.0780	-.0800	-.2340
150.000	.1180	-.0890	-.2290
165.000		-.3290	-.2390
180.000	.1380		

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0050	.0492	.1000	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2370	.9810	.3330	-.1030	-.3870	-.4930	-.3220	-.1180	.3060	.0320	-.1930	-.2860	-.1930	-.0910	-.0330
30.000	1.2370		.2930	-.1310	-.4080	-.4810	-.1570	-.1050	-.0850	-.1130	-.2280	-.3270	-.1170	-.0490	-.1160
60.000	1.2370		.2990	-.1300	-.4040	-.4780	-.1280	-.1190	-.0440	-.1970	-.2110	-.2970	-.1791	-.0850	-.0940
90.000	1.2370	.9990	.3310	-.1090	-.3940	-.4740	-.0930	-.1470	.0120	-.5160	-.4830	-.2970	-.4780	-.1840	-.1890
120.000	1.2370		.4130	-.0250	-.5370	-.4220	-.5030	-.0980	.9310	.2790	-.1170	.0780	-.0810	-.2290	-.3840
135.000	1.2370							-.2840		.2760		.0360		-.2830	
150.000	1.2370		.9380	.1120	-.2390	-.3370	-.4240	-.3720	.3210	.2480	-.3350	.0790	-.1180	-.3420	-.5080
165.000	1.2370			.1750	-.1660	-.2790	-.5640	-.5130	.5810	.3310	-.4830		-.1110		-.5870
180.000	1.2370	1.2770	.7190	.2450	-.1280	-.2210	-.5290	-.2310	.4050	.4680	-.8360	.1690	-.0910	-.2690	-.4420
270.000	1.2370	1.2770													

X/L?	.7449	.8528	.9290
PHI			
.000	-.0790	.0150	-.0930
30.000	-.0940	.0090	-.0940
60.000	-.0970	.0100	-.0950
90.000			-.2030
120.000	.0990	-.1050	-.2840
135.000	-.0160	-.0790	-.2860
150.000	-.0360	-.0600	-.2990
165.000		-.3390	-.2860
180.000	.0910		

MACH (2) = 1.265 BETAT (1) = -0.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L?	.0000	.0050	.0492	.1000	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3830	1.0730	.3940	-.0810	-.2920	-.3310	-.4280	-.3030	-.0080	.0360	-.0890	-.2780	-.1870	-.0970	-.0070
30.000	1.3830		.4040	.0810	-.2420	-.3090	-.3990	-.3810	-.1180	-.2100	-.3510	-.2280	-.1110	-.1150	-.1170
60.000	1.3830		.8330	.1880	-.1390	-.2240	-.3080	-.2450	.0590	-.2880	-.6280	-.2740	-.1140	-.1130	-.0890
90.000	1.3830	1.3990	.7850	.3220	-.0910	-.1250	-.2180	-.1640	.5290	-.3580	-.4550	-.2490	-.3080	-.1130	-.0480
120.000	1.3830		.8790	.4120	.0430	-.0470	-.1480	-.1050	.9070	.2780	.0130	.2660	.1890	.1170	-.0360
135.000	1.3830							-.1000		.3990		.2691		.1290	
150.000	1.3830		.8800	.4130	.0370	-.0490	-.1480	-.1060	.5950	.4910	.1000	.2230	.1530	.0891	-.0840
165.000	1.3830			.5910	.0950	-.0890	-.1770	-.1390	.3490	.5790	.0680		.1510		-.1710
180.000	1.3830	1.3980	.7790	.5130	-.0360	-.1250	-.2290	-.1800	.5080	.9780	-.2280	-.2070	.1230	-.0710	-.3020
270.000	1.3830	1.0930													

X/L?	.7449	.8528	.9290
PHI			

MACH (2) = 1.249 BETAT (1) = -8.12°

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7489	.8528	.9290
PHI			
.000	-.0470	-.0890	-.0360
30.000	-.0490	-.0810	-.0180
60.000	-.0490	-.0920	-.0920
90.000			-.2380
120.000	.0470	.2290	.0030
150.000	-.0890	.2790	-.0310
180.000	-.0810	.3120	-.0420
185.000		.2710	-.0420
190.000	-.3800		

MACH (2) = 1.292 BETAT (2) = -8.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1080	.1744	.1909	.2121	.2538	.2874	.3412	.3990	.4489	.5027	.5585	.6372
PHI															
.000	1.3810	1.1090	.4190	-.3010	-.2790	-.3320	-.4080	-.3490	.0110	.0900	-.0830	-.2430	-.2000	-.0710	.0870
30.000	1.3810		.4980	.0310	-.2540	-.3150	-.3910	-.3470	-.0830	-.0870	-.2420	-.2210	-.0970	-.1080	-.0810
60.000	1.3810		.3870	.1700	-.1930	-.2080	-.3440	-.2990	.0200	-.2030	-.5770	-.3790	-.0780	-.0790	-.0780
90.000	1.3810	1.3230	.8960	.2910	-.1080	-.1900	-.2770	-.2580	.9330	-.3850	-.3640	-.3150	-.2870	-.1990	-.0790
120.000	1.3810		.7920	.3280	-.0890	-.1140	-.2160	-.1860	.3290	.3280	.0080	.1250	.2170	.0580	-.1580
150.000	1.3810							-.1480		.4320		.1330		.0580	
180.000	1.3810		.8410	.3790	.0090	-.0870	-.1730	-.1370	.3780	.5220	.0200	.1991	.2220	.0350	-.1540
185.000	1.3810			.3660	-.0220	-.0820	-.1790	-.1440	.3580	.6050	-.0330		.2760		-.1810
190.000	1.3810	1.3970	.9110	.3380	-.0210	-.1010	-.1990	-.1580	.3410	.6120	-.1740	-.0780	.1890	-.0350	-.2310
230.000	1.3810	1.1830													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0480	-.0490	-.0820
30.000	-.0480	-.0490	-.0370
60.000	-.0260	-.0240	-.0370
90.000			-.0760
120.000	-.0320	.1420	-.0730
150.000	-.1020	.1750	-.1220
180.000	-.1490	.1910	-.1210
185.000		.1050	-.1810
190.000	-.2880		

MACH (2) = 1.290 BETAT (3) = .020

SECTION (11)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0692	.1000	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3790	1.1780	.4270	.0180	-.2980	-.3230	-.3990	-.3470	.0280	.0970	-.0090	-.2540	-.2120	-.0810	.0580
90.000	1.3790		.4420	.0130	-.2840	-.3200	-.4020	-.3500	-.0190	.0270	-.1490	-.2280	-.1990	-.0800	-.0270
80.000	1.3790		.4980	.0590	-.2320	-.3080	-.3830	-.3300	-.0090	-.2800	-.5280	-.5220	-.0990	-.1010	-.0890
90.000	1.3790	1.2570	.5690	.1340	-.1740	-.2570	-.3370	-.2930	.5390	-.3580	-.3110	-.1880	-.3130	-.1580	-.0850
120.000	1.3790		.6910	.2370	-.0990	-.1840	-.2670	-.2320	.3580	.5810	.0290	.4870	.1590	-.0980	-.1080
135.000	1.3790							-.2060		.4490		.0990		-.0230	
150.000	1.3790		.7870	.3240	-.0350	-.1220	-.2160	-.1750	.3230	.4620	-.0170	.0810	.1990	-.0350	-.1990
165.000	1.3790			.3410	-.0160	-.1050	-.1950	-.1690	.3280	.5780	-.0980		.1580		-.1960
180.000	1.3790	1.4170	.8230	.3440	-.0140	-.1030	-.1980	-.1540	.3420	.6590	-.1980	-.0190	.1890	-.0380	-.1860
270.000	1.3790	1.2490													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0930	-.0990	-.0340
90.000	-.0330	-.0310	-.0910
80.000	-.0290	-.0160	-.0290
90.000			-.0870
120.000	-.0890	.0990	-.1170
135.000	-.1320	.0890	-.2040
150.000	-.1770	.0980	-.2240
165.000		-.0190	-.2540
180.000	-.1090		

MACH (2) = 1.240 BETAT (4) = 4.130

SECTION (11)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0008	.0692	.1000	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3580	1.0950	.4180	-.0040	-.2780	-.3350	-.4000	-.3370	.0140	.0770	-.0380	-.2360	-.1990	-.0720	.0170
90.000	1.3580		.4010	-.0170	-.2880	-.3370	-.4080	-.3570	-.0090	.0510	-.0780	-.1840	-.2790	-.0530	-.0580
80.000	1.3580		.4290	-.0020	-.2740	-.3410	-.4080	-.1920	-.0790	-.1930	-.2800	-.2690	-.0800	-.0970	-.0850
90.000	1.3580	1.1810	.4840	.0490	-.2420	-.3170	-.3870	-.0240	.3930	-.3510	-.3110	-.4480	-.3210	-.2220	-.0800
120.000	1.3580		.5780	.1370	-.1780	-.2540	-.3320	-.0130	.1810	.3390	.0380	.0420	.1210	-.0580	-.2370
135.000	1.3580							-.2690		.3910		.0820		-.0910	
150.000	1.3580		.7990	.2520	-.0990	-.1730	-.2620	-.2240	.2330	.4290	-.0990	.0540	.0890	-.1180	-.2780
165.000	1.3580			.3010	-.0650	-.1370	-.2280	-.1990	.3040	.5320	-.1950		.1230		-.2781
180.000	1.3580	1.5980	.8100	.3330	-.0290	-.1040	-.2030	-.1990	.3290	.6230	-.1960	-.0660	.1710	-.0480	-.2420
270.000	1.3580	1.3180													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-FOOT 1A9 CRA + 33 + 79 EXTERNAL TANK (RBNT21)

MACH (2) = 1.248 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0580	-.0480	-.0570
30.000	-.0560	-.0320	-.0380
60.000	-.0400	-.0200	-.0390
90.000			-.1390
120.000	-.1090	-.0990	-.1380
135.000	-.1310	-.0740	-.2190
150.000	-.1820	-.0820	-.2040
165.000		-.1900	-.2040
180.000	-.2080		

MACH (2) = 1.247 BETAT (5) = 8.280

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6378
PHI															
.000	1.3200	1.0920	.3920	-.0280	-.2900	-.3500	-.4280	-.3880	-.0870	.0080	-.1140	-.2700	-.1900	-.0790	-.0180
30.000	1.3200		.3490	-.0540	-.3100	-.3810	-.4290	-.2580	-.0330	-.0030	-.1110	-.2900	-.2090	-.0730	-.0380
60.000	1.3200		.3470	-.0530	-.3070	-.3740	-.3880	-.1380	-.0840	-.1900	-.2350	-.1950	-.1380	-.0800	-.0890
90.000	1.3200	1.0900	.3080	-.0310	-.2980	-.3700	-.3720	-.0820	.2540	-.3180	-.2820	-.4400	-.2800	-.3840	-.0980
120.000	1.3200		.4680	.0440	-.2490	-.3250	-.3570	-.0290	.1190	.3990	.0810	.0150	.0950	-.0840	-.2790
135.000	1.3200							-.1170		.3740		.0580		-.2490	
150.000	1.3200		.8180	.1790	-.1490	-.2380	-.3180	-.2830	.2010	.3240	-.2000	.0280	.0410	-.1780	-.5880
165.000	1.3200			.2480	-.0980	-.1820	-.2580	-.2340	.2540	.4230	-.2940		.0910		-.4130
180.000	1.3200	1.3990	.7790	.3120	-.0420	-.1300	-.2190	-.1780	.2920	.5660	-.2941	-.2380	.1480	-.0710	-.5710
270.000	1.3200	1.3930													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0940	-.0430	-.0900
30.000	-.0940	-.0310	-.0860
60.000	-.0950	-.0180	-.0870
90.000			-.1330
120.000	-.0960	-.0420	-.2250
135.000	-.0880	-.0340	-.2350
150.000	-.1370	-.1180	-.2340
165.000		-.3010	-.2660
180.000	-.3830		

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORDINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1903	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2625	1.0550	.3080	-.0510	-.1830	-.4320	-.5150	-.0920	.0110	.0190	-.1900	-.3270	-.0970	-.0470	-.0250
30.000	1.2625		.4800	.0320	-.3090	-.3780	-.4720	-.5240	.0210	-.1480	-.4350	-.1480	-.1010	-.0980	-.1110
60.000	1.2625		.6160	.1510	-.2080	-.2460	-.3890	.0200	.0960	-.2930	-.5290	-.1500	-.0350	-.0890	-.0710
90.000	1.2625	1.3030	.7430	.2630	-.1120	-.2120	-.2570	.3660	.4900	-.5390	-.3910	-.4250	-.0810	-.1490	-.0890
120.000	1.2625		.8000	.3250	-.0600	-.1500	-.2550	.2050	.4700	.1330	.2070	.1790	.1160	.0120	-.1820
135.000	1.2625							.0690		.2700		.1810		-.0010	
150.000	1.2625		.7750	.3010	-.0690	-.1740	-.2730	-.1800	.3940	.3780	.0160	.1410	.0940	-.0770	-.2150
165.000	1.2625			.2550	-.1250	-.2020	-.3020	-.2350	.3990	.4660	-.0470		.0120		-.2990
180.000	1.2625	1.2580	.6730	.1950	-.1660	-.2450	-.3500	-.2950	.4020	.4650	-.1910	.1250	-.0620	-.2430	-.4390
270.000	1.2625	.9870													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0940	-.0120	-.1000
30.000	-.0910	-.0300	-.0820
60.000	-.0120	.0020	-.0700
90.000			-.1540
120.000	.1870	.1990	-.0880
135.000	.1780	.2430	-.0450
150.000	.1930	.2890	-.0430
165.000		.2480	-.0720
180.000	.0170		

MACH (1) = 1.097 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1903	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2990	1.0850	.4090	-.0410	-.3310	-.4180	-.5090	-.1020	.0380	.0850	-.1180	-.3480	-.0590	.0190	-.0010
30.000	1.2990		.4890	.0010	-.3290	-.3990	-.4830	-.4920	.0710	-.0930	-.3380	-.1790	-.0850	-.0930	-.0800
60.000	1.2990		.5500	.0790	-.2830	-.3450	-.4360	-.1020	.1180	-.2550	-.5440	-.1110	-.0440	-.0820	-.0830
90.000	1.2990	1.2830	.6450	.1860	-.1950	-.2830	-.3810	.1290	.4960	-.5470	-.5480	-.4250	-.1020	-.1570	-.1020
120.000	1.2990		.7140	.2350	-.1390	-.2240	-.3250	.1060	.4990	.1780	-.0230	.1830	.0390	-.0480	-.2550
135.000	1.2990							-.2040		.2490		.1430		-.0990	
150.000	1.2990		.7490	.2850	-.1250	-.2060	-.3090	-.2350	.4430	.3870	-.1200	.1300	.0110	-.0430	-.2540

AMES 11-FOOT IA9 OPA • 93 • 79 EXTERNAL TANK (RUN722)

MACH (1) = 1.097 BETAT (2) = -4.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
185.000	1.2990			.2440	-.1300	-.2200	-.3110	-.2820	.4490	.4730	-.1290		.0290		-.3060
180.000	1.2990	1.2990	.7010	.2130	-.1530	-.2360	-.3390	-.2800	.4390	.4990	-.2340	.1630	.0050	-.1790	-.3490
270.000	1.2990	1.1090													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0740	.0000	-.1040
30.000	-.0740	-.0110	-.1080
60.000	-.0330	-.0010	-.0740
90.000			-.1390
120.000	.1330	.1170	-.1580
135.000	.1340	.1280	-.1920
150.000	.1780	.1290	-.1780
165.000		-.0260	-.1290
180.000	.1310		

MACH (1) = 1.098 BETAT (3) = .000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3090	1.0880	.4180	-.0320	-.3480	-.4180	-.4990	-.1210	.0800	.1120	-.0960	-.3480	-.0220	.0360	.0080
30.000	1.3090		.4280	-.0340	-.3470	-.4140	-.4980	-.1840	.0340	.0970	-.2560	-.1860	-.0480	.0180	-.0770
60.000	1.3090		.4720	.0080	-.3190	-.3910	-.4780	-.0860	.1930	-.2110	-.4930	-.1720	-.0740	-.0370	-.0880
90.000	1.3090	1.1930	.5410	.0720	-.2790	-.3520	-.4420	.0210	.5130	-.5480	-.4960	-.4210	-.2790	-.1800	-.1161
120.000	1.3090		.6170	.1440	-.2110	-.2970	-.3680	-.0890	.9080	.2150	-.0580	.1510	.0190	-.1290	-.2770
135.000	1.3090							-.0770		.3180		.1410		-.1320	
150.000	1.3090		.6840	.2110	-.1830	-.2490	-.3440	-.1900	.4210	.3770	-.0550	.1800	.0150	-.1870	-.3180
165.000	1.3090			.2210	-.1910	-.2370	-.3310	-.2770	.4330	.4580	-.2840		.0290		-.3160
180.000	1.3090	1.3140	.7150	.2210	-.1690	-.2590	-.3310	-.2750	.4440	.5120	-.2030	.1830	.0330	-.1870	-.3130
270.000	1.3090	1.1970													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0820	.0090	-.0880
30.000	-.0830	.0190	-.0880
60.000	-.0290	-.0170	-.1090
90.000			-.1890
120.000	.1150	.0280	-.2180
135.000	.1130	.0240	-.2320
150.000	.1410	-.0080	-.2270

MACH . . = 1.090 BETAT (3 : .0°

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8529	.9290
PHI			
185.000		-.1520	-.2390
180.000	.1330		

MACH . . = 1.190 BETAT (4: X 4.18°

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0496	.0452	.1090	.1744	.1795	.2171	.2936	.2874	.3612	.3895	.4669	.5127	.5909	.6579
PHI															
.000	1.2940	1.2915	.4380	-.0485	-.3490	-.4180	-.4930	-.4990	-.4780	-.4250	-.4120	-.3220	-.2480	-.1610	-.0480
30.000	1.2940		.5430	-.0670	-.3660	-.4330	-.4990	-.4780	-.4180	-.4290	-.4190	-.3480	-.2660	-.1540	-.0760
60.000	1.2940		.5950	-.0530	-.3680	-.4170	-.4960	-.4630	-.4430	-.4190	-.3980	-.3360	-.2660	-.1540	-.0760
90.000	1.2940	1.2720	.4430	-.0170	-.3550	-.4120	-.4850	-.4480	-.4640	-.4290	-.4120	-.3220	-.2480	-.1370	-.0480
120.000	1.2940		.5490	-.0320	-.3290	-.3980	-.4780	-.4780	-.4960	-.4190	-.3980	-.3360	-.2660	-.1540	-.0760
135.000	1.2940						-.4780			-.4190		-.3360		-.1540	
150.000	1.2940		.8110	.1440	-.2120	-.3290	-.3980	-.4630	-.3960	-.3320	-.2620	-.2170	-.1480	-.0910	.0040
165.000	1.2940			.1950	-.1840	-.2630	-.3320	-.3960	-.4210	-.3960	-.3320		-.1580		-.0930
180.000	1.2940	1.3010	.7540	.2160	-.1510	-.2350	-.3360	-.2760	-.4340	-.4030	-.3320	-.1620	-.1480	-.1480	-.0930
195.000	1.2940	1.2820													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0690	-.0930	-.1070
30.000	-.0480	.0110	-.0780
60.000	-.0370	-.0130	-.1080
90.000			-.2090
120.000	.0940	-.0430	-.2070
135.000	.0980	-.0470	-.2200
150.000	.1090	-.0680	-.2130
165.000		-.3140	-.2240
180.000	.1290		

AMES 11-FT IA9 CEA + 33 + T9 EXTERNAL TANK (RUN122)

MACH (1) = 1.799 BETAT (1) = 0.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1798	.1744	.1905	.2121	.2338	.2874	.3412	.3993	.4489	.5027	.5583	.6372
PHI															
.000	1.2990	1.0540	.3810	-.0810	-.3040	-.4330	-.5120	-.1010	.0160	.0150	-.1980	-.2810	-.1070	-.0810	-.0830
30.000	1.2990		.3930	-.1740	-.3980	-.4330	-.1530	-.0870	-.0090	-.0330	-.2250	-.3150	-.1140	-.0340	-.0780
60.000	1.2990		.9230	-.1190	-.3960	-.4560	-.1090	-.0930	-.0940	-.1380	-.2270	-.2160	-.1020	-.0540	-.1080
90.000	1.2990	.9900	.3330	-.0990	-.3870	-.3440	-.0670	-.0980	.4420	-.4970	-.4980	-.3020	-.9030	-.8230	-.1080
120.000	1.2990		.4790	-.0310	-.3490	-.3230	-.1250	-.0880	.4000	.2870	-.1820	.0690	-.0490	-.2330	-.3080
150.000	1.2990							-.0650		.2790		.0190		-.2870	
150.000	1.2990		.9310	.0800	-.2820	-.3470	-.4400	-.3010	.3370	.2350	-.3480	.0310	-.1290	-.3460	-.9220
180.000	1.2990			.1580	-.2210	-.3020	-.3990	-.3450	.3590	.3940	-.4350		-.1270		-.9740
180.000	1.2990	1.2610	.0720	.1960	-.1620	-.2310	-.3550	-.2970	.3810	.4370	-.3880	.0090	-.0870	-.2840	-.4990
210.000	1.2990	1.3010													

X/LT	.7469	.8528	.9090
PHI			
.000	-.0970	-.0580	-.1120
30.000	-.0770	.0810	-.1090
60.000	-.0510	.0110	-.1130
90.000			-.2720
120.000	.0580	-.0770	-.2240
150.000	-.0100	-.0630	-.2870
180.000	-.0160	-.2280	-.2970
185.000		-.5180	-.2880
180.000	.0150		

MACH (2) = 1.24 BETAT (1) = -0.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1798	.1744	.1905	.2121	.2338	.2874	.3412	.3991	.4489	.5027	.5583	.6372
PHI															
.000	1.3429	1.1270	.4410	.0160	-.2660	-.3280	-.4080	-.1790	.0930	.0970	-.0760	-.2830	-.1040	-.0980	-.0830
30.000	1.3429		.9380	.1270	-.2070	-.2790	-.3650	-.3280	-.0790	-.1480	-.3420	-.2480	-.0930	-.1010	-.1170
60.000	1.3429		.8740	.2170	-.1110	-.1990	-.2680	-.2170	.1230	-.1900	-.9920	-.2190	-.0790	-.0810	-.0191
90.000	1.3429	1.5090	.7980	.3590	-.0250	-.1170	-.2790	-.1190	.5830	-.3810	-.5830	-.2890	-.5190	-.1910	-.0440
120.000	1.3429		.8590	.3960	.0240	-.0690	-.1810	-.1210	.4580	.2290	-.0690	.1970	.2120	.1790	-.0790
150.000	1.3429							-.1270		.3580		.1920		.1290	
150.000	1.3429		.8180	.3820	.0990	-.0650	-.1770	-.1410	.2980	.4870	.0820	.1260	.1910	.0490	-.0790
180.000	1.3429			.3240	-.1380	-.1170	-.2360	-.1790	.5150	.5910	.0800		.0430		-.1590
180.000	1.3429	1.9330	.7230	.2680	-.1780	-.1570	-.2970	-.2110	.2590	.9840	.0950	-.2420	.1260	-.1180	-.2900
210.000	1.3429	1.0770													

X/LT	.7469	.8528	.9090
PHI			

AMES 11-FT 1A9 '24 + 59 + 73 EXTERNAL TANK (RUN 255)

MACH (2) = 1.247 BETAT 1) = -8.160

SECTION ( ) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
Y=I			
.000	-.1490	-.0990	-.0410
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		

MACH 2) = 1.247 BETAT (2) = -4.[illegible]

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1798	.1744	.1909	.2121	.2334	.2674	.3412	.3955	.4489	.5027	.5585	.6372
Y=I															
.000	1.3800	1.1345	.4700	.0364	-.2490	-.3050	-.3580	-.3410	.0210	.1110	-.0110	-.2270	-.2180	-.0880	.0390
30.000	1.3800		.5230	.0750	-.2170	-.2820	-.3710	-.3230	-.0490	.0050	-.2040	-.2650	-.0810	-.0920	-.0390
60.000	1.3800		.6040	.1510	-.1840	-.2430	-.3270	-.2810	.1310	-.1840	-.5480	-.1700	-.0330	-.0440	-.0880
90.000	1.3800	1.3420	.7010	.2420	-.0980	-.1820	-.2710	-.2331	.3430	-.3471	-.5090	-.5570	-.1230	-.2770	-.1470
120.000	1.3800		.7690	.3100	-.0420	-.1293	-.2210	-.1650	.3830	.2680	-.0650	.0770	.2040	.0750	-.1250
135.000	1.3800							-.1710		.4030		.0480		.2700	
15 .000	1.3800		.7960	.3320	-.0310	-.1170	-.2070	-.1630	.3590	.4950	.0150	.0270	.2150	.0490	-.1370
165.000	1.3800			.3190	-.0400	-.1230	-.2100	-.1770	.3070	.5910	-.0370		.2040		-.1630
180.000	1.3800	1.3780	.7990	.2870	-.0580	-.1490	-.2340	-.1940	.3090	.5920	-.0370	-.1460	.1990	-.0370	-.2230
270.000	1.3800	1.1810													

X/LT	.7449	.8528	.9290
Y=I			
.000	-.0440	-.0310	-.0370
30.000	-.0440	-.0480	-.0390
60.000	-.0240	-.0110	-.0110
90.000			-.0840
120.000	-.0230	.1790	-.0640
135.000	-.0790	.2140	-.0840
150.000	-.1580	.2080	-.0840
165.000		.1120	-.0850
180.000	-.2910		

AMES 11-7X7 IA9 CRA + S3 + T9 EXTERNAL TANK (RBNT22)

MACH (2) = 1.250 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3940	1.1840	.4760	.0430	-.2440	-.3030	-.3835	-.3340	.0140	.1190	.0170	-.2120	-.2380	-.0640	.0320
30.000	1.3940		.4870	.0470	-.2400	-.3000	-.3830	-.3360	.0010	.0650	-.1260	-.2890	-.1220	-.0830	-.0270
60.000	1.3940		.5320	.0870	-.2110	-.2850	-.3610	-.3210	.1270	-.1490	-.5550	-.1720	-.0200	-.0500	-.0800
90.000	1.3940	1.2730	.6060	.1500	-.1670	-.2510	-.3310	-.2780	.5550	-.3410	-.3990	-.4180	-.2230	-.3200	-.1170
120.000	1.3940		.6790	.2190	-.1110	-.1950	-.2770	-.2390	.4250	.3120	-.0450	.0340	.1630	.0030	-.1820
135.000	1.3940							-.2230		.4220		.0570		-.0090	
150.000	1.3940		.7470	.2660	-.0670	-.1520	-.2390	-.2010	.2890	.4490	-.0180	.0200	.1590	-.0310	-.1820
165.000	1.3940			.2960	-.0510	-.1450	-.2280	-.1910	.2910	.5340	-.0890		.1760		-.1990
180.000	1.3940	1.3940	.7730	.2930	-.0510	-.1350	-.2260	-.1860	.3020	.6190	-.0900	-.0480	.1950	-.0310	-.1840
270.000	1.3940	1.2730													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0220	-.0440	-.0320
30.000	-.0220	-.0310	-.0340
60.000	-.0630	-.0190	-.0350
90.000			-.0880
120.000	-.0900	.0930	-.0880
135.000	-.1340	.0920	-.1740
150.000	-.1920	.0920	-.1990
165.000		-.0080	-.2080
180.000	-.1930		

MACH (2) = 1.250 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3790	1.1480	.4640	.0330	-.2460	-.3070	-.3890	-.3420	.0030	.1030	-.0120	-.2190	-.1980	-.0830	.0230
30.000	1.3790		.4430	.0180	-.2570	-.3110	-.3880	-.3440	.0170	.0470	-.0120	-.2700	-.1690	-.0520	-.0250
60.000	1.3790		.4540	.0190	-.2490	-.3180	-.3840	-.3410	.0790	-.0870	-.4680	-.1230	-.0680	-.0350	-.0430
90.000	1.3790	1.1790	.5020	.0610	-.2240	-.3030	-.3750	-.0580	.4950	-.3280	-.3060	-.4280	-.2180	-.3870	-.0990
120.000	1.3790		.5720	.1320	-.1770	-.2550	-.3320	-.1470	.1400	.3470	.0400	.0040	.1420	-.0280	-.2330
135.000	1.3790							-.2710		.3660		.0690		-.0820	
150.000	1.3790		.6710	.2250	-.1140	-.1990	-.2810	-.2400	.1840	.3780	-.0920	.0130	.1150	-.0940	-.2590
165.000	1.3790			.2620	-.0820	-.1680	-.2530	-.2160	.2360	.5420	-.1850		.1660		-.2580
180.000	1.3790	1.3790	.7640	.2900	-.0570	-.1410	-.2340	-.1920	.2790	.6260	-.1890	-.1440	.2210	-.0240	-.2240
270.000	1.3790	1.3390													

X/LT	.7449	.8528	.9290
PHI			

MACH (2) = 1.249 BETAT (5) = 8.230

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0550	-.0510	-.0620
30.000	-.0530	-.0390	-.0360
60.000	-.0270	-.0230	-.0660
90.000			-.1280
120.000	-.0790	-.0270	-.1290
135.000	-.1280	-.0440	-.2120
150.000	-.2150	-.0460	-.2080
165.000		-.1760	-.2030
180.000	-.2940		

MACH (2) = 1.249 BETAT (5) = 8.230

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1095	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3430	1.1110	.4390	.0190	-.2610	-.3240	-.4050	-.3650	-.0110	.0320	-.0950	-.2610	-.1490	-.0850	-.0160
30.000	1.3430		.3970	-.0240	-.2920	-.3450	-.4200	-.3470	-.0180	.0300	-.0950	-.2210	-.1710	-.0820	-.0190
60.000	1.3430		.3790	-.0350	-.2940	-.3590	-.4150	-.1090	-.0680	-.0500	-.2510	-.1240	-.1130	-.0620	-.0310
90.000	1.3430	1.0680	.4070	-.0200	-.2850	-.3560	-.1900	-.0740	.2480	-.3010	-.3190	-.3740	-.1530	-.3500	-.1070
120.000	1.3430		.4670	.0380	-.2500	-.3220	-.3710	-.0150	.0610	.2500	.0460	-.1230	.1000	-.0710	-.2780
135.000	1.3430							-.0340		.3390		-.0400		-.1130	
150.000	1.3430		.5890	.1490	-.1710	-.2540	-.3320	-.2940	.1630	.3310	-.1860	-.0970	.0710	-.1580	-.3660
165.000	1.3430			.2090	-.1260	-.2090	-.2900	-.2550	.2180	.4280	-.2790		.1260		-.4020
180.000	1.3430	1.3420	.7280	.2680	-.0790	-.1610	-.2480	-.2080	.2020	.5630	-.2800	-.2500	.1600	-.0470	-.2820
270.000	1.3430	1.3790													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0510	-.0480	-.0520
30.000	-.0510	-.0370	-.0520
60.000	-.0120	-.0160	-.0780
90.000			-.1410
120.000	-.0500	-.0390	-.1960
135.000	-.1120	-.0410	-.2290
150.000	-.1540	-.1080	-.2490
165.000		-.3030	-.2730
180.000	-.3820		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT23) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .900
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.099 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2770	1.1030	.4550	-.0100	-.3340	-.4070	-.4920	-.2470	.0320	.0260	-.1700	-.3310	-.1060	-.0590	-.0240
30.000	1.2770		.5340	.0750	-.2720	-.3460	-.4460	-.3630	.0530	-.1060	-.3900	-.1330	-.0850	-.0950	-.1130
60.000	1.2770		.6570	.1800	-.1780	-.2660	-.3630	.0220	.1490	-.2310	-.5110	-.1110	-.0040	-.0310	-.0720
90.000	1.2770	1.3170	.7520	.2680	-.1110	-.2000	-.2440	.3400	.5090	-.5360	-.3900	-.4360	-.1840	-.1820	-.1040
120.000	1.2770		.7790	.2970	-.0830	-.1720	-.2750	.1160	.4290	.0770	-.0850	.1810	.1170	.0190	-.1700
135.000	1.2770							-.1000		.2300		.1830		.0040	
150.000	1.2770		.7520	.2570	-.1250	-.1090	-.3070	-.2410	.3530	.3520	-.0750	.1400	.0970	-.0720	-.2120
165.000	1.2770			.2080	-.1710	-.2400	-.3390	-.2900	.3610	.4500	-.0720		.0190		-.3040
180.000	1.2770	1.2380	.6270	.1490	-.2030	-.2830	-.3810	-.3310	.3680	.4530	-.2050	.0100	-.0690	-.2330	-.4430
270.000	1.2770	1.0140													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0980	-.0340	-.0970
30.000	-.0800	-.0380	-.0950
60.000	-.0480	.0180	-.0410
90.000			-.1160
120.000	.1820	.2250	.0120
135.000	.1820	.2650	.0530
150.000	.2030	.3100	.0340
165.000		.2710	.0550
180.000	.0190		

MACH (1) = 1.097 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3160	1.1380	.4580	.0030	-.3200	-.3960	-.4810	-.2830	.0640	.0990	-.1050	-.3420	-.0700	.0180	.0100
30.000	1.3160		.5090	.0400	-.2940	-.3650	-.4590	-.3950	.0920	.0070	-.2840	-.[illegible]	-.0810	-.0220	-.0690
60.000	1.3160		.5860	.1080	-.2360	-.3190	-.4160	-.1360	.1890	-.1990	-.4930	-.0959	-.0090	-.0540	-.0500
90.000	1.3160	1.2770	.6550	.1740	-.1900	-.2750	-.3660	.1230	.5120	-.3410	-.3700	-.4480	-.2900	-.1900	-.1040
120.000	1.3160		.6940	.2150	-.1550	-.2390	-.3380	.0830	.4870	.1350	-.1980	.1580	.0650	-.0400	-.2180
135.000	1.3160							-.1570		.2760		.1820		-.0510	
150.000	1.3160		.6950	.2160	-.1580	-.2430	-.3380	-.2960	.4000	.3650	-.1450	.1990	.0820	-.0980	-.2370

SECTION (1)EXTERNAL TANK

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3160			.1980	-.1680	-.2550	-.3460	-.3060	.4090	.4600	-.1730		.0290		-.2690
180.000	1.3160	1.2770	.6520	.1670	-.1910	-.2720	-.3710	-.3140	.3800	.4610	-.2240	.1730	.0080	-.1810	-.3380
270.000	1.3160	1.1220													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0850	-.0090	-.0790
30.000	-.0840	-.0160	-.0910
60.000	-.0570	-.0250	-.0930
90.000			-.1390
120.000	.1450	.1280	-.1380
135.000	.1450	.1530	-.1380
150.000	.1840	.1530	-.1160
165.000		-.0220	-.1170
180.000	.1370		

MACH (1) = 1.101 BETAT (5) = .020

DEPENDENT VARIABLE CP

SECTION (1)EXTERNAL TANK

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3270	1.1400	.4850	.0050	-.3220	-.3920	-.4750	-.2930	.0870	.1250	-.0810	-.3320	-.0920	.0470	.0140
30.000	1.3270		.4740	.0050	-.3190	-.3890	-.4760	-.3550	.0710	.0920	-.2260	-.2110	-.0340	.0290	-.0810
60.000	1.3270		.5050	.0360	-.2940	-.3720	-.4600	-.0780	.2350	-.1440	-.4780	-.0410	-.0420	-.0240	-.0800
90.000	1.3270	1.2120	.5340	.0850	-.2640	-.3440	-.4350	.0440	.5500	-.5280	-.1840	-.4360	-.2400	-.2080	-.1190
120.000	1.3270		.6010	.1320	-.2230	-.3060	-.3960	.0920	.3630	.1950	-.1380	.1280	.0280	-.1150	-.2800
135.000	1.3270							.0900		.2970		.1300		-.1190	
150.000	1.3270		.6310	.1760	-.1980	-.2770	-.3700	.0290	.3100	.3560	-.2040	.1580	.0250	-.1510	-.3010
165.000	1.3270			.1790	-.1830	-.2750	-.3630	-.1860	.3410	.4450	-.2640		.0290		-.3010
180.000	1.3270	1.2930	.6870	.1780	-.1870	-.2680	-.3640	-.2810	.3570	.5040	-.2770	.1850	.0380	-.1520	-.3080
270.000	1.3270	1.2140													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0880	-.0090	-.0550
30.000	-.0710	-.0160	-.0550
60.000	-.0390	-.0340	-.1250
90.000			-.1680
120.000	.1170	.0380	-.1890
135.000	.1280	.0350	-.1930
150.000	.1450	.0000	-.1960

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
185.000		-.1530	-.2140
180.000	.1390		

MACH (1) = 1.102 BETAT (4) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3130	1.1230	.4570	-.0030	-.3270	-.3980	-.4820	-.2310	.0700	.0980	-.1160	-.3330	-.0840	.0160	.0070
30.000	1.3130		.4250	-.0340	-.3480	-.4140	-.4960	-.0670	.0280	.0420	-.1640	-.2580	-.0770	.0210	-.0880
60.000	1.3130		.4220	-.0370	-.3440	-.4120	-.3530	-.0700	.0930	-.0820	-.5160	-.0780	-.0830	-.0220	-.0780
90.000	1.3130	1.1170	.4550	-.0170	-.3270	-.4040	-.0820	-.0300	.5380	-.5160	-.3000	-.2260	-.4750	-.2310	-.1480
120.000	1.3130		.5010	.0390	-.2930	-.3690	-.0160	.0350	.2050	.2120	-.1110	.0540	-.0110	-.1680	-.3040
135.000	1.3130							.0350		.3020		.0570		-.2040	
150.000	1.3130		.5800	.1120	-.2420	-.3250	-.4120	.0130	.2710	.3230	-.2390	.0970	-.0400	-.2320	-.3840
165.000	1.3130			.1420	-.2170	-.2970	-.3900	-.0910	.3260	.4040	-.3480		-.0250		-.3840
180.000	1.3130	1.2790	.6580	.1710	-.1920	-.2730	-.3730	-.3000	.3700	.4870	-.3480	.1750	.0120	-.1890	-.3350
270.000	1.3130	1.2770													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0930	-.0090	-.0620
30.000	-.0780	.0090	-.0780
60.000	-.0370	-.0080	-.0880
90.000			-.2010
120.000	.0990	-.0300	-.2010
135.000	.1090	-.0410	-.2010
150.000	.1120	-.0700	-.2010
165.000		-.2720	-.2170
180.000	.1380		

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2720	1.0830	.4260	-.0180	-.3440	-.4140	-.4900	-.1670	.0200	.0080	-.1830	-.3190	-.1120	-.0700	-.0230
30.000	1.2720		.3640	-.0800	-.3860	-.4450	-.3000	-.0750	.0030	.0060	-.1820	-.2710	-.0890	-.0210	-.0400
60.000	1.2720		.3430	-.1010	-.3900	-.4480	-.1080	-.0820	-.0300	-.0460	-.2010	-.1510	-.1120	-.0460	-.0890
90.000	1.2720	1.0640	.3610	-.0910	-.3840	-.3670	-.0560	-.0670	.3100	-.4720	-.4690	-.1980	-.4280	-.2970	-.1570
120.000	1.2720		.3990	-.0440	-.3560	-.4190	-.0390	-.0370	.2050	.2730	-.1210	.0100	-.0570	-.2230	-.3690
135.000	1.2720							-.0550		.2740		.0180		-.2760	
150.000	1.2720		.4990	.0460	-.2950	-.3670	-.4540	-.0670	.2610	.2450	-.3380	.0550	-.1320	-.3430	-.5040
165.000	1.2720			.0930	-.2590	-.3280	-.4160	-.3520	.3250	.3230	-.4330		-.1250		-.3700
180.000	1.2720	1.2380	.6210	.1420	-.2070	-.2860	-.3850	-.3280	.3550	.4460	-.4320	-.0520	-.0560	-.2600	-.4390
270.000	1.2720	1.3140													

X/LT	.7449	.8526	.9290
PHI			
.000	-.1000	-.0260	-.1900
30.000	-.0615	.0140	-.1040
60.000	-.0520	.0030	-.1030
90.000			-.1830
120.000	.0610	-.0530	-.2420
135.000	.0010	-.0510	-.2390
150.000	-.0010	-.2130	-.2660
165.000		-.2990	-.2690
180.000	-.0080		

MACH (2) = 1.248 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3590	1.1790	.4960	.0820	-.2340	-.2980	-.3800	-.3430	-.0750	.0880	-.0470	-.2370	-.1790	-.1080	-.0230
30.000	1.3590		.5910	.1480	-.1720	-.2400	-.3320	-.2950	-.0430	-.0920	-.2740	-.2980	-.0650	[illegible]	-.1080
60.000	1.3590		.7140	.2530	-.0840	-.1680	-.2610	-.2160	.1850	-.1150	-.5750	-.1540	-.0280	[illegible]	-.0450
90.000	1.3590	1.3950	.8090	.3380	-.0180	-.1070	-.1980	-.1110	.5520	-.3320	-.6710	-.2950	-.3120	[illegible]	-.0910
120.000	1.3590		.8350	.3680	.0040	-.0840	-.1780	-.1390	.4110	.1680	-.1490	.1810	.2180	.0940	-.0340
135.000	1.3590							-.1540		.3080		.1500		.1540	
150.000	1.3590		.7860	.3250	-.0340	-.1190	-.2090	-.1740	.2160	.4460	.0650	.0070	.1960	.1110	-.0820
165.000	1.3590			.2770	-.0730	-.1520	-.2360	-.2020	.2410	.3410	.0540		.0390		-.1810
180.000	1.3590	1.3150	.6800	.2260	-.1100	-.1900	-.2780	-.2420	.2360	.5410	-.0210	-.2560	.1410	-.0230	-.2840
270.000	1.3590	1.0880													

X/LT	.7449	.8526	.9290
PHI			

MACH (2) = 1.248 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0340	-.0410	-.0420
30.000	-.0340	-.0430	-.0310
60.000	-.0380	-.0250	.0050
90.000			-.1930
120.000	.0370	.2950	.0040
135.000	-.0120	.3450	.0550
150.000	-.0950	.3870	.0390
165.000		.3890	.0840
180.000	-.3790		

MACH (2) = 1.249 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1088	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.9027	.9565	.9372
PHI															
.000	1.3980	1.2110	.5150	.0780	-.2180	-.2840	-.3670	-.3220	-.0340	.1300	.0090	-.2030	-.2280	-.0910	.0830
30.000	1.3980		.5880	.1150	-.1890	-.2550	-.3490	-.3010	-.0190	.0480	-.1520	-.2720	-.0590	-.0740	-.0540
60.000	1.3980		.6410	.1850	-.1390	-.2220	-.3070	-.2660	.1750	-.0950	-.5520	-.1270	.0050	-.0100	-.0810
90.000	1.3980	1.3580	.7150	.2480	-.0910	-.1770	-.2900	-.1860	.5480	-.3310	-.3980	-.3720	-.0720	-.3030	-.1120
120.000	1.3980		.7320	.2870	-.0610	-.1440	-.2320	-.1960	.3500	.2370	-.1290	.0750	.1800	.0890	-.1150
135.000	1.3980							-.1950		.3860		.0450		.0870	
150.000	1.3980		.7540	.2900	-.0630	-.1470	-.2320	-.1960	.2880	.4630	.0150	-.0480	.1550	.0810	-.1320
165.000	1.3980			.2740	-.0760	-.1560	-.2420	-.2060	.2640	.5710	-.0310		.1820		-.1550
180.000	1.3980	1.3580	.7110	.2390	-.0950	-.1740	-.2620	-.2210	.2570	.6250	-.0310	-.1540	.2230	-.0020	-.2070
270.000	1.3980	1.2010													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0380	-.0470	-.0480
30.000	-.0380	-.0380	-.0480
60.000	-.0380	-.0140	-.0100
90.000			-.0780
120.000	-.0280	.2030	-.0730
135.000	-.0840	.2240	-.0420
150.000	-.1930	.2310	-.0440
165.000		.1190	-.0250
180.000	-.2880		

MACH (2) = 1.248 BETAT (3) = .010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4090	1.2130	.5230	.0800	-.2210	-.2620	-.3630	-.3210	-.0140	.1410	.0320	-.1930	-.2520	-.0500	.0240
30.000	1.4090		.5310	.0830	-.2190	-.2780	-.3630	-.3200	.0210	.0880	-.0550	-.2640	-.0950	-.0770	-.0260
60.000	1.4090		.5660	.1120	-.1960	-.2730	-.3460	-.3050	.1520	-.0630	-.5080	-.0970	-.0230	-.0550	-.0510
90.000	1.4090	1.2830	.6170	.1540	-.1620	-.2420	-.3200	-.2790	.5590	-.3260	-.5080	-.4210	-.1460	-.3500	-.1170
120.000	1.4090		.6620	.1990	-.1260	-.2070	-.2880	-.2510	.2630	.2930	-.0990	-.0090	.1490	.0160	-.1800
135.000	1.4090							-.2390		.3500		.0240		.0130	
150.000	1.4090		.7090	.2470	-.1000	-.1810	-.2640	-.2260	.2500	.3970	-.0180	-.0350	.0890	-.0110	-.1790
165.000	1.4090			.2830	-.0920	-.1730	-.2610	-.2190	.2560	.4150	-.0670		.1340		-.1780
180.000	1.4090	1.3710	.7260	.2500	-.0910	-.1700	-.2590	-.2170	.2650	.4200	-.0780	-.0560	.1840	-.0110	-.1590
270.000	1.4090	1.2890													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0160	-.0390	-.0330
30.000	-.0180	-.0260	-.0180
60.000	-.0170	-.0250	-.0380
90.000			-.0770
120.000	-.0780	.1200	-.0770
135.000	-.1130	.1200	-.1450
150.000	-.1850	.1010	-.1350
165.000		-.0110	-.1640
180.000	-.2040		

MACH (2) = 1.247 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3950	1.1970	.5120	.0710	-.2230	-.2900	-.3660	-.3210	-.0180	.1250	.0030	-.2080	-.2180	-.0680	.0160
30.000	1.3950		.4810	.0440	-.2410	-.2990	-.3790	-.3300	.0360	.0100	.0030	-.2490	-.1580	-.0720	-.0210
60.000	1.3950		.4810	.0430	-.2380	-.3020	-.3750	-.3300	.0230	-.0170	-.4550	-.0790	-.0560	-.0870	-.0250
90.000	1.3950	1.1980	.5120	.0630	-.2220	-.2970	-.3690	-.2110	.5710	-.3330	-.3950	-.4540	-.1170	-.3170	-.1120
120.000	1.3950		.5600	.1130	-.1900	-.2630	-.3400	-.2900	.1320	.3420	-.0750	-.0520	.1220	-.0170	-.2390
135.000	1.3950							-.2880		.2720		-.0010		-.0510	
150.000	1.3950		.6380	.1860	-.1440	-.2180	-.3020	-.2650	.1810	.3260	-.0870	-.0760	.1190	-.0880	-.2510
165.000	1.3950			.2170	-.1200	-.1950	-.2780	-.2440	.1790	.5200	-.1870		.1680		-.2370
180.000	1.3950	1.3580	.7140	.2390	-.1000	-.1740	-.2630	-.2230	.2400	.6100	-.1850	-.1710	.2110	-.0170	-.2140
270.000	1.3950	1.3520													

X/LT	.7449	.8328	.9290
PHI			

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT23)

MACH (2) = 1.247 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0340	-.0480	-.0520
30.000	-.0350	-.0370	-.0320
60.000	-.0340	-.0240	-.0490
90.000			-.1490
120.000	-.0390	-.0090	-.1090
135.000	-.0580	-.0110	-.1820
150.000	-.0880	-.0080	-.1800
165.000		-.1850	-.1800
180.000	-.2910		

MACH (2) = 1.246 BETAT (3) = 8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1056	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3540	1.1550	.4820	.0530	-.2370	-.3030	-.3830	-.3450	-.0260	.0600	-.0710	-.2480	-.1750	-.1140	-.0290
30.000	1.3540		.4190	-.0050	-.2800	-.3340	-.4090	-.3630	.0080	.0450	-.1040	-.2800	-.1950	-.0880	-.0270
60.000	1.3540		.4010	-.0210	-.2860	-.3490	-.4090	-.1160	-.0410	.0540	-.3670	-.0940	-.1040	-.0980	-.0110
90.000	1.3540	1.0810	.4170	-.0130	-.2810	-.3480	-.4010	-.0890	.3390	-.3010	-.3120	-.4390	-.1020	-.2880	-.1110
120.000	1.3540		.4560	.0300	-.2570	-.3250	-.3910	-.0230	.0370	.2380	.0030	-.1600	.0800	-.0820	-.2800
135.000	1.3540							-.0170		.3360		-.1600		-.0940	
150.000	1.3540		.5580	.1200	-.1990	-.2740	-.3510	-.3110	.1130	.3200	-.1920	-.2390	.0500	-.1480	-.3640
165.000	1.3540			.1700	-.1590	-.2360	-.3160	-.2840	.1670	.4140	-.2790		.1120		-.4070
180.000	1.3540	1.3180	.6780	.2220	-.1180	-.1940	-.2790	-.2390	.1850	.5410	-.2800	-.2820	.1480	-.0370	-.2840
270.000	1.3540	1.3910													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0510	-.0590	-.0580
30.000	-.0510	-.0430	-.0590
60.000	.0140	-.0280	-.0580
90.000			-.1320
120.000	.0130	-.0250	-.1490
135.000	-.0880	-.0250	-.2140
150.000	-.1780	-.1190	-.2440
165.000		-.3020	-.2640
180.000	-.3890		

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .000
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.100 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2850	1.1450	.4810	.0310	-.3020	-.3790	-.4710	-.4120	.0730	.0530	-.1500	-.3240	-.1290	-.0700	-.0140
30.000	1.2850		.5830	.1110	-.2370	-.3120	-.4170	-.3420	.0840	-.0620	-.3420	-.0960	-.0690	-.0860	-.1000
60.000	1.2850		.6920	.2110	-.1540	-.2410	-.3460	.0350	.2090	-.1740	-.6100	-.0430	.0190	-.0180	-.0610
90.000	1.2850	1.3240	.7590	.2690	-.1070	-.1960	-.3030	.2610	.5230	-.3250	-.4270	-.3400	-.4140	-.2110	-.1230
120.000	1.2850		.7510	.2710	-.1100	-.1570	-.2980	.0730	.3790	.0190	-.2830	.1630	.1190	.0290	-.1510
135.000	1.2850							-.1640		.1790		.1840		.0040	
150.000	1.2850		.6810	.2080	-.1650	-.2480	-.3420	-.2860	.3180	.3200	-.1040	.1390	.1000	-.0890	-.1920
165.000	1.2850			.1560	-.2110	-.2830	-.3770	-.3290	.3260	.4300	-.1040		.0240		-.2760
180.000	1.2850	1.2060	.5740	.0980	-.2410	-.3250	-.4160	-.3570	.3200	.4420	-.2060	-.1530	-.0510	-.2310	-.4130
270.000	1.2850	1.0230													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0980	-.0470	-.0860
30.000	-.1000	-.0260	-.0860
60.000	-.0270	.0030	-.0400
90.000			-.1200
120.000	.1890	.2380	.0320
135.000	.1890	.2900	.0620
150.000	.2180	.3310	.0440
165.000		.3060	.0440
180.000	.0350		

MACH (1) = 1.098 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3230	1.1790	.5070	.0450	-.2680	-.3660	-.4530	-.3910	.1110	.1180	-.0920	-.3200	-.0700	.0250	.0180
30.000	1.3230		.5560	.0820	-.2630	-.3350	-.4320	-.3660	.1240	.0420	-.2510	-.1330	-.0650	.0000	-.0470
60.000	1.3230		.6160	.1360	-.2150	-.2970	-.3960	-.0950	.2500	-.1340	-.5970	-.0310	.0160	-.0090	-.0380
90.000	1.3230	1.2830	.6610	.1780	-.1820	-.2700	-.3710	.1080	.5340	-.5200	-.4120	-.2330	-.2520	-.1890	-.0920
120.000	1.3230		.6660	.1930	-.1730	-.2590	-.3520	-.0240	.4300	.0030	-.2760	.1660	.0870	-.0210	-.1970
135.000	1.3230							-.2530		.2410		.1760		-.0320	
150.000	1.3230		.6470	.1770	-.1940	-.2760	-.3660	-.3220	.3490	.3510	-.1690	.1660	.0850	-.0780	-.2200

AMES 11-7D7 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT24)

MACH (1) = 1.098 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5589	.6372
PHI															
183.000	1.3230			.1520	-.2100	-.2870	-.3790	-.3270	.3500	.4450	-.1950		.0370		-.2680
180.000	1.3230	1.2480	.6010	.1190	-.2300	-.3060	-.4000	-.1060	.3020	.4840	-.1990	.1430	.0330	-.1420	-.3140
270.000	1.3230	1.1300													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0830	-.0220	-.0850
30.000	-.0830	-.0240	-.0790
60.000	-.0470	-.0290	-.0730
90.000			-.1330
120.000	.1400	.1590	-.1330
135.000	.1430	.1780	-.0580
150.000	.1870	.1790	-.0590
165.000		.0080	-.1030
180.000	.1440		

MACH (1) = 1.098 BETAT (3) = .090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5589	.6372
PHI															
.000	1.3360	1.1890	.5120	.0500	-.2920	-.3630	-.4580	-.3910	.1200	.1530	-.0690	-.3090	-.0470	.0490	.0080
30.000	1.3360		.5180	.0440	-.2930	-.3640	-.4590	-.3780	.0940	.1120	-.1840	-.1940	-.0470	.0490	-.0490
60.000	1.3360		.5330	.0810	-.2770	-.3560	-.4480	-.0740	.2820	-.0870	-.5570	-.0190	-.0210	.0010	-.0480
90.000	1.3360	1.2190	.5640	.0850	-.2610	-.3490	-.4370	.0320	.5450	-.5110	-.4190	-.1440	-.2720	-.2040	-.1050
120.000	1.3360		.5780	.1100	-.2430	-.3270	-.4150	.0480	.3820	.1300	-.2610	.1440	.0470	-.0900	-.2520
135.000	1.3360							.0410		.2760		.1280		-.1010	
150.000	1.3360		.6070	.1340	-.2320	-.3130	-.4010	.0560	.2330	.3340	-.2000	.1160	.0420	-.1250	-.2700
165.000	1.3360			.1320	-.2250	-.3110	-.3980	.0580	.2290	.3880	-.2250		.0420		-.2870
180.000	1.3360	1.2830	.6140	.1290	-.2280	-.3080	-.4020	.0360	.2230	.4590	-.2540	.1180	.0510	-.1220	-.2720
270.000	1.3360	1.2230													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0740	-.0380	-.0570
30.000	-.0740	-.0310	-.0410
60.000	-.0310	-.0340	-.1060
90.000			-.1480
120.000	.1250	.0490	-.1460
135.000	.1240	.0470	-.1430
150.000	.1510	.0080	-.1640

DATE 24 SEP 73 TABULATED PRESSURE DATA J TAPE

AMES 11-7?7 IA9 ORA + 53 + T9 EXTERNAL TANK (RBNT24)

MACH (1) = 1.098 BETAT (3) = .000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1500	-.1930
180.000	.1680		

MACH (1) = 1.097 BETAT (4) = 4.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3200	1.1670	.5050	.0450	-.2910	-.3650	-.4520	-.3950	.1040	.1150	-.0930	-.3170	-.0930	.0290	.0250
30.000	1.3200		.4650	.0060	-.3200	-.3890	-.4750	-.0870	.0660	.0530	-.1380	-.2490	-.0930	.0170	-.0410
60.000	1.3200		.4480	-.0120	-.3260	-.3990	-.4760	-.0500	.1160	-.0190	-.4840	-.0650	-.0810	-.0020	-.0420
90.000	1.3200	1.1250	.4540	-.0080	-.3190	-.3990	-.4570	-.0290	.5880	-.4960	-.3360	-.0280	-.2940	-.2420	-.1320
120.000	1.3200		.4880	.0270	-.3040	-.3750	-.0460	.0130	.1610	.1940	-.1330	.0030	.0150	-.1330	-.2870
135.000	1.3200							.0280		.2820		.0310		-.1620	
150.000	1.3200		.5460	.0810	-.2660	-.3470	-.3020	.0140	.1740	.2980	-.2520	.0690	-.0120	-.1970	-.3290
165.000	1.3200			.1030	-.2490	-.3280	-.4120	-.0120	.2320	.3990	-.3450		.0000		-.3527
180.000	1.3200	1.2300	.6090	.1230	-.2280	-.3060	-.3950	-.1910	.2960	.4840	-.3450	.1190	.0370	-.1520	-.3011
270.000	1.3200	1.2680													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0880	-.0140	-.0630
30.000	-.0790	.0000	-.0840
60.000	-.0490	-.0100	-.0840
90.000			-.1840
120.000	.1110	-.0100	-.1640
135.000	.1090	-.0270	-.1820
150.000	.1180	-.0670	-.1930
165.000		-.2700	-.2010
180.000	.1440		

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT24)

MACH (1) = 1.151 BETAT (1) = 0.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2820	1.1300	.4750	.0260	-.3060	-.3830	-.4670	-.4150	.0520	.0330	-.1800	-.2880	-.1410	-.0780	-.0440
30.000	1.2820		.4000	-.0470	-.3630	-.4260	-.5110	-.0780	.0410	.0530	-.1590	-.2700	-.1060	-.0180	-.0390
60.000	1.2820		.3660	-.0800	-.3740	-.4440	-.1380	-.0770	.0020	.0460	-.1910	-.1660	-.1100	-.0220	-.0350
90.000	1.2820	1.0120	.3680	-.0830	-.3750	-.4500	-.0730	-.0650	.4220	-.4530	-.4140	-.0820	-.2780	-.2270	-.1890
120.000	1.2820		.3900	-.0500	-.3590	-.4310	-.0250	-.0280	.0870	.1650	-.1280	.0010	-.0360	-.1980	-.3590
135.000	1.2820							-.0390		.2650		.0340		-.2400	
150.000	1.2820		.4660	.0220	-.3150	-.3970	-.1980	-.0610	.1630	.2370	-.3380	.0430	-.1100	-.3090	-.4480
165.000	1.2820			.0590	-.2890	-.3650	-.4450	-.1020	.2540	.3120	-.4290		-.1030		-.3390
180.000	1.2820	1.2100	.5700	.1000	-.2480	-.3260	-.4210	-.3670	.3140	.4290	-.4290	-.1800	-.0390	-.2520	-.4290
270.000	1.2820	1.3230													

X/LT	.7449	.8528	.9290
PHI			
.000	-.1020	-.0340	-.0920
30.000	-.0350	.0080	-.1050
60.000	-.0500	-.0010	-.0660
90.000			-.1825
120.000	.0840	-.0330	-.1830
135.000	.0190	-.0230	-.2350
150.000	.0120	-.2140	-.2320
165.000		-.2660	-.2510
180.000	.0130		

MACH (2) = 1.248 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3860	1.2230	.5410	.0980	-.2050	-.2730	-.3590	-.3220	-.1400	.1050	-.0330	-.2180	-.1840	-.1130	-.0360
30.000	1.3860		.6410	.1880	-.1400	-.2150	-.3080	-.2660	.0010	-.0430	-.2410	-.2870	-.0480	-.0130	-.1040
60.000	1.3860		.7500	.2800	-.0640	-.1460	-.2390	-.1980	.2370	-.0480	-.3230	-.1010	.0090	.0070	-.0300
90.000	1.3860	1.4040	.8140	.3400	-.0160	-.1090	-.1980	-.1170	.3540	-.3290	-.6840	-.2190	-.3110	-.3890	-.1290
120.000	1.3860		.8070	.3400	-.0210	-.1090	-.2000	-.1540	.3330	.1030	-.2190	.1870	.2480	.0990	-.0450
135.000	1.3860							-.1860		.2490		.1150		.0870	
150.000	1.3860		.7420	.2800	-.0740	-.1550	-.2420	-.2080	.1450	.4130	.0410	-.0640	.1980	.0890	-.0280
165.000	1.3860			.2270	-.1120	-.1900	-.2730	-.2400	.1880	.5280	.0380		.0491		-.1480
180.000	1.3860	1.2850	.6330	.1780	-.1490	-.2250	-.3100	-.2740	.2070	.5840	-.3820	-.2880	-.1910	-.0500	-.2720
270.000	1.3860	1.0970													

X/LT	.7449	.8528	.9290
PHI			

MACH (1) = 1.248 BETAT (1) = -5.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8328	.9290
PHI			
.000	-.0370	-.0430	-.0470
30.000	-.0390	-.0260	-.0150
60.000	-.0330	-.0350	-.0470
90.000			-.1910
120.000	.0660	.3150	.0570
135.000	-.0010	.3550	.0870
150.000	-.0860	.4040	.0880
165.000		.4160	.0880
180.000	-.3750		

MACH (2) = 1.249 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1908	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6102
PHI															
.000	1.4020	1.2540	.5630	.1140	-.1920	-.2590	-.3430	-.3020	-.1660	.1580	.0270	-.1850	-.2230	-.0490	.0170
30.000	1.4020		.6130	.1520	-.1630	-.2290	-.3250	-.2790	.0180	.0710	-.1510	-.2450	-.0930	-.0230	-.0480
60.000	1.4020		.6720	.2060	-.1190	-.2030	-.2900	-.2470	.2390	-.0270	-.5010	-.0800	.0290	-.0170	-.0480
90.000	1.4020	1.3600	.7170	.2480	-.0910	-.1760	-.2490	-.1960	.5520	-.3190	-.6690	-.3360	-.1530	-.3270	-.1930
120.000	1.4020		.7240	.2810	-.0440	-.1640	-.2550	-.2130	.5560	.1730	-.1990	.0430	.1120	.0860	-.1280
135.000	1.4020							-.2230		.3420		-.0280		.0860	
150.000	1.4020		.7070	.2440	-.0990	-.1790	-.2630	-.2220	.2530	.4470	.0190	-.1170	.1180	.0970	-.1270
165.000	1.4020			.2290	-.1160	-.1920	-.2740	-.2370	.2990	.5500	-.0210		.0990		-.1480
180.000	1.4020	1.3230	.6590	.1930	-.1320	-.2160	-.2930	-.2510	.1920	.5260	-.0260	-.1720	-.0420	.0230	-.1840
270.000	1.4020	1.2080													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0380	-.0430	-.0490
30.000	-.0380	-.0290	-.0230
60.000	-.0370	-.0340	-.0420
90.000			-.1160
120.000	-.0180	.2290	.0180
135.000	-.0910	.2970	-.0110
150.000	-.1230	.2830	-.0130
165.000		.1340	.0320
180.000	-.2810		

AMES 11-FT IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT24)

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2358	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4190	1.2820	.5720	.1220	-.1690	-.2580	-.3440	-.2980	-.1190	.1650	.0490	-.1680	-.2340	-.0300	.0230
30.000	1.4190		.5770	.1220	-.1920	-.2560	-.3460	-.2970	.0390	.0680	-.0480	-.2270	-.0910	-.0420	-.0340
60.000	1.4190		.5940	.1570	-.1740	-.2500	-.3310	-.2950	.1300	.0130	-.4500	-.0850	.0110	-.0530	-.0480
90.000	1.4190	1.2970	.6200	.1620	-.1970	-.2370	-.3150	-.2720	.5500	-.3020	-.3980	-.1580	-.0500	-.2630	-.1640
120.000	1.4190		.6390	.1810	-.1420	-.2200	-.2990	-.2600	.2440	.2260	-.1690	-.0920	.0920	.0380	-.1840
135.000	1.4190							-.2570		.3510		-.0580		.0380	
150.000	1.4190		.8430	.2070	-.1280	-.2090	-.2880	-.2510	.1970	.3270	-.0110	-.0780	.0180	.0290	-.1810
165.000	1.4190			.2050	-.1250	-.2040	-.2860	-.2470	.1900	.3470	-.0520		-.0310		-.1910
180.000	1.4190	1.3380	.8730	.2030	-.1260	-.2040	-.2870	-.2460	.2050	.3490	-.0540	-.0180	-.0280	.0250	-.1490
270.000	1.4190	1.2980													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0150	-.0350	-.0480
30.000	-.0110	-.0240	-.0170
60.000	-.0280	-.0190	-.0390
90.000			-.0970
120.000	-.0320	.1360	-.0950
135.000	-.1330	.1330	-.0980
150.000	-.1640	.1110	-.1000
165.000		-.0100	-.1330
180.000	-.1850		

MACH (2) = 1.249 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2358	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4080	1.2490	.5630	.1210	-.1910	-.2570	-.3450	-.3040	-.1290	.1490	.0210	-.1830	-.2140	-.0680	.0040
30.000	1.4080		.5210	.0820	-.2180	-.2780	-.3600	-.3160	.0300	.0370	.0220	-.2210	-.1590	-.0850	-.0480
60.000	1.4080		.5080	.0660	-.2240	-.2910	-.3640	-.3210	.0360	.0580	-.3910	-.0960	-.0250	-.0780	-.0270
90.000	1.4080	1.2070	.5220	.0720	-.2150	-.2910	-.3620	-.1800	.5540	-.3080	-.4710	-.4130	-.0260	-.2580	-.1280
120.000	1.4080		.5440	.0970	-.1980	-.2750	-.3450	-.1850	.0980	.2820	-.1130	-.0830	.0070	.0080	-.2080
135.000	1.4080							-.2300		.1960		-.0710		-.0220	
150.000	1.4080		.8040	.1530	-.1690	-.2480	-.3230	-.2800	.1590	.2670	-.0720	-.1510	-.0450	-.0410	-.2280
165.000	1.4080			.1750	-.1500	-.2300	-.3070	-.2690	.1610	.4220	-.1630		.0030		-.2240
180.000	1.4080	1.3320	.8680	.1960	-.1340	-.2110	-.2940	-.2530	.2230	.5460	-.1580	-.1710	.0260	.0190	-.1820
270.000	1.4080	1.3660													

X/LT	.7449	.8526	.9290
PHI			

X/LT	.7449	.8326	.9290
PHI			
.000	-.0350	-.0500	-.0450
30.000	-.0350	-.0390	-.0500
60.000	-.0230	-.0360	-.0380
90.000			-.0920
120.000	-.0440	.0180	-.0930
135.000	-.0450	.0160	-.1520
150.000	-.0990	.0150	-.1530
165.000		-.1820	-.1770
180.000	-.2750		

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1903	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6572
PHI															
.000	1.3650	1.2070	.5340	.0990	-.2030	-.2760	-.3630	-.3260	-.1010	.0820	-.0450	-.2240	-.1650	-.1150	-.0490
30.000	1.3650		.4580	.0330	-.2590	-.3210	-.4010	-.3530	.0360	.0580	-.1360	-.2720	-.2020	-.0810	-.0570
60.000	1.3650		.4200	-.0070	-.2760	-.3390	-.4060	-.2770	-.0210	.1130	-.3210	-.0640	-.0990	-.0640	-.0190
90.000	1.3650	1.0890	.4230	-.0070	-.2760	-.3470	-.4070	-.0670	.458/	-.2890	-.2480	-.3830	.0040	-.2390	-.1160
120.000	1.3650		.4460	.0230	-.2590	-.3310	-.3970	-.0350	.0220	.2790	-.0560	-.1850	.0310	-.0350	-.2570
135.000	1.3650							-.0320		.2850		-.1680		-.0660	
150.000	1.3650		.5240	.0880	-.2180	-.2950	-.3690	-.3010	.1120	.2850	-.1630	-.2509	.0610	-.1250	-.3300
165.000	1.3650			.1290	-.1880	-.2670	-.3410	-.3060	.1530	.3950	-.2560		.0990		-.3960
180.000	1.3650	1.2900	.6300	.1760	-.1530	-.2300	-.3080	-.2700	.2440	.5150	-.2570	-.2850	.0440	-.0230	-.2720
270.000	1.3650	1.4030													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0360	-.0530	-.0470
30.000	.0070	-.0420	-.0630
60.000	.0280	-.0380	-.0390
90.000			-.1140
120.000	.0280	.0080	-.1160
135.000	-.0810	.0050	-.1790
150.000	-.1460	-.1420	-.2220
165.000		-.2710	-.2320
180.000	-.3770		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 26.5390 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.098 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2840	1.1860	.5320	.0760	-.2690	-.3500	-.4410	-.3600	.1030	.0670	-.1320	-.2830	-.1490	-.0900	-.0380
30.000	1.2840		.6380	.1540	-.2000	-.2750	-.3820	-.3080	.1150	-.0220	-.2900	-.0760	-.0570	-.0780	-.0960
60.000	1.2840		.7270	.2430	-.1250	-.2130	-.3210	.0490	.2660	-.1140	-.5630	-.0160	.0260	.0000	-.0350
90.000	1.2840	1.3260	.7620	.2740	-.1040	-.1960	-.2980	.2300	.5230	-.5030	-.4000	-.0570	-.0940	-.1480	-.0990
120.000	1.2840		.7250	.2470	-.1350	-.2180	-.3140	.0310	.3230	-.0460	-.3540	.1790	.1440	.0360	-.1350
135.000	1.2840							-.2050		.1230		.1810		.0200	
150.000	1.2840		.6340	.1680	-.2010	-.2850	-.3700	-.3240	.2640	.2840	-.1280	.1380	.1170	-.0480	-.1640
165.000	1.2840			.1110	-.2490	-.3200	-.4040	-.3590	.2610	.4080	-.1290		.0440		-.2970
180.000	1.2840	1.1720	.5280	.0360	-.2770	-.3560	-.4450	-.1000	.2210	.4290	-.1980	-.2290	-.0250	-.2070	-.3840
270.000	1.2840	1.0230													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0920	-.0580	-.0840
30.000	-.0920	-.0130	-.0840
60.000	-.0080	.0160	-.0570
90.000			-.1370
120.000	.1950	.2740	.0950
135.000	.2080	.3170	.0850
150.000	.2130	.3570	.0860
165.000		.3430	.0650
180.000	.0480		

MACH (1) = 1.095 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3250	1.2200	.5580	.0890	-.2600	-.3360	-.4290	-.3650	.1410	.1380	-.0700	-.2920	-.1000	.0180	.0300
30.000	1.3250		.6050	.1220	-.2350	-.3050	-.4060	-.3350	.1530	.0780	-.2160	-.1190	-.0680	.0040	-.0310
60.000	1.3250		.6440	.1650	-.1950	-.2770	-.3780	-.1390	.2970	-.0730	-.5470	-.0010	.0130	.0030	-.0090
90.000	1.3250	1.2870	.6640	.1780	-.1830	-.2730	-.3700	.0880	.5340	-.5000	-.4690	-.0090	-.0470	-.1250	-.0900
120.000	1.3250		.6420	.1680	-.1990	-.2800	-.3710	-.0590	.3750	.0200	-.3480	.1550	.1170	-.0020	-.1770
135.000	1.3250							-.2380		.1950		.1660		-.0080	
150.000	1.3250		.6060	.1310	-.2320	-.3080	-.3950	-.3100	.2680	.3290	-.1800	.1390	.1150	-.0510	-.1910

MACH (1) = 1.095 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3250			.1040	-.2480	-.3250	-.4100	-.1280	.2460	.4180	-.2070		.0880		-.2110
180.000	1.3250	1.2140	.3570	.0730	-.2690	-.3410	-.4270	-.0150	.1910	.4620	-.2630	-.1530	.0590	-.1180	-.2710
270.000	1.3250	1.1350													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0810	-.0430	-.0490
30.000	-.0780	-.0210	-.0580
60.000	-.0310	-.0130	-.1020
90.000			-.1570
120.000	.1410	.1790	-.0080
135.000	.1650	.2030	.0270
150.000	.1850	.2100	.0100
165.000		.0450	-.0070
180.000	.1410		

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3350	1.2200	.5520	.0880	-.2650	-.3440	-.4270	-.3690	.1450	.1490	-.0590	-.2850	-.0950	.0490	.0310
30.000	1.3350		.5510	.0810	-.2700	-.3450	-.4370	-.3670	.1220	.1210	-.1530	-.1990	-.0800	.0420	-.0350
60.000	1.3350		.5520	.0830	-.2650	-.3390	-.4300	-.0980	.2820	-.0380	-.5020	-.0090	-.0170	.0140	-.0220
90.000	1.3350	1.2180	.5610	.0840	-.2610	-.3390	-.4300	.0360	.5640	-.4960	-.3650	.0020	-.0790	-.1480	-.0980
120.000	1.3350		.5570	.0890	-.2610	-.3340	-.4200	.0240	.3910	.0740	-.3240	.1590	.0890	-.0740	-.2320
135.000	1.3350							.0320		.2410		.1490		-.0800	
150.000	1.3350		.5680	.0980	-.2590	-.3330	-.4170	.0350	.1770	.3170	-.1930	.0980	.0350	-.1050	-.2490
165.000	1.3350			.0930	-.2540	-.3330	-.3890	.0490	.1770	.3390	-.2000		.0360		-.2490
180.000	1.3350	1.2310	.5710	.0890	-.2600	-.3310	-.4050	.0570	.1750	.3740	-.2130	-.0010	.0800	-.0810	-.2490
270.000	1.3350	1.2230													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0840	-.0410	-.0820
30.000	-.0830	-.0390	-.0370
60.000	-.0470	-.0430	-.0920
90.000			-.1470
120.000	.1090	.0580	-.1480
135.000	.1090	.0520	-.1120
150.000	.1420	.0040	-.1340

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1640	-.1720
180.000	.1350		

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3260	1.2050	.5450	.0750	-.2670	-.3450	-.4310	-.3750	.1370	.1280	-.0840	-.2980	-.1050	.0090	.0240
30.000	1.3260		.4940	.0290	-.3080	-.3780	-.4990	-.1370	.1080	.0620	-.1310	-.2530	-.0970	.0130	-.0280
60.000	1.3260		.4640	-.0010	-.3220	-.3920	-.4690	-.0290	.1560	.0300	-.4420	-.0800	-.0780	.0100	-.0930
90.000	1.3260	1.1270	.4630	-.0070	-.3230	-.3980	-.2100	-.0200	.6150	-.4950	-.2440	-.0230	-.1230	-.1930	-.1280
120.000	1.3260		.4660	.0100	-.3150	-.3850	-.0680	.0000	.1540	.1530	-.2660	.0230	.0290	-.1240	-.2830
135.000	1.3260							.0220		.2190		.0270		-.1430	
150.000	1.3260		.5090	.0500	-.2960	-.3690	-.0480	.0190	.1560	.2600	-.2470	.0150	.0030	-.1810	-.3220
165.000	1.3260			.0670	-.2780	-.3580	-.3120	-.0040	.1590	.3700	-.3460		.0160		-.3440
180.000	1.3260	1.2230	.5680	.0830	-.2610	-.3380	-.4220	-.0310	.2220	.4730	-.3460	-.0240	.0550	-.1360	-.3010
270.000	1.3260	1.2940													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0740	-.0370	-.0560
30.000	-.0740	-.0110	-.0740
60.000	-.0310	-.0110	-.0680
90.000			-.1460
120.000	.0980	-.0110	-.1430
135.000	.0990	-.0250	-.1760
150.000	.1190	-.0860	-.1740
165.000		-.2370	-.1870
180.000	.1410		

MACH (1) = 1.098 BETAT (5) = 0.260

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2840	1.1650	.5230	.0670	-.2720	-.3510	-.4410	-.3880	.0850	.0510	-.1490	-.2400	-.1580	-.1040	-.0440
30.000	1.2840		.4320	-.0190	-.3440	-.4100	-.4960	-.0760	.0800	.0780	-.1420	-.2620	-.1300	-.0380	-.0480
60.000	1.2840		.3800	-.0710	-.3690	-.4360	-.2080	-.0640	.0110	.1030	-.3280	-.1790	-.0950	-.0300	-.0450
90.000	1.2840	1.0140	.3660	-.0860	-.3750	-.4480	-.1030	-.0620	.5600	-.4480	-.1090	-.2400	-.0940	-.1230	-.1430
120.000	1.2840		.3740	-.0690	-.3680	-.4360	-.0570	-.0400	.0570	.1450	-.1020	-.0630	-.0090	-.1650	-.3450
135.000	1.2840							-.0230		.2880		.0070		-.1940	
150.000	1.2840		.4300	-.0150	-.3380	-.4170	-.0580	-.0430	.0900	.2310	-.3290	.0080	-.0730	-.2670	-.4130
165.000	1.2840			.0170	-.3190	-.3940	-.3270	-.0600	.1580	.3030	-.4360		-.0790		-.4960
180.000	1.2840	1.1750	.5200	.0550	-.2850	-.3590	-.4470	-.1180	.2260	.4180	-.4390	-.2320	-.0210	-.2350	-.4090
270.000	1.2840	1.3290													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0980	-.0300	-.1050
30.000	-.0950	-.0010	-.1030
60.000	-.0360	.0030	-.0850
90.000			-.1800
120.000	.0490	-.0130	-.1800
135.000	.0490	-.0140	-.2190
150.000	.0250	-.2150	-.2400
165.000		-.2360	-.2400
180.000	.0240		

MACH (2) = 1.246 BETAT (1) = -8.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3640	1.2540	.5800	.1350	-.1620	-.2540	-.3380	-.3020	-.1670	.1130	-.0270	-.1990	-.1550	-.1220	-.0430
30.000	1.3640		.6880	.2220	-.1090	-.1830	-.2820	-.2360	.0410	-.0160	-.2130	-.2290	-.0380	-.0640	-.0970
60.000	1.3640		.7830	.3120	-.0390	-.1220	-.2210	-.1740	.2790	-.0040	-.4790	-.0880	.0160	.0130	-.0090
90.000	1.3640	1.4050	.8220	.3480	-.0090	-.1010	-.1980	-.1560	.5580	-.3160	-.4920	-.0510	-.0740	-.2710	-.1010
120.000	1.3640		.7870	.3210	-.0360	-.1210	-.2130	-.1470	.3070	.0240	-.2830	.1500	.1980	.1000	-.0380
135.000	1.3640							-.2060		.1950		.1080		.1010	
150.000	1.3640		.7050	.2450	-.1030	-.1810	-.2670	-.2330	.0750	.3750	.0290	-.0900	.1970	.0530	-.0830
165.000	1.3640			.1680	-.1450	-.2200	-.2990	-.2660	.1350	.5170	.0330		.0600		-.1350
180.000	1.3640	1.2300	.5880	.1380	-.1800	-.2530	-.3360	-.2980	.1560	.5580	.0310	-.2830	-.1000	.0000	-.2610
270.000	1.3640	1.0900													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT29)

MACH (2) = 1.248 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0640	-.0390	-.0480
30.000	-.0670	-.0140	-.0080
60.000	-.0250	-.0260	-.0070
90.000			-.1110
120.000	.0770	.3360	.1120
135.000	.0310	.3890	.1530
150.000	-.0600	.4300	.1520
165.000		.4380	.1230
180.000	-.3520		

MACH (2) = 1.248 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4488	.9027	.9365	.8372
PHI															
.000	1.4080	1.2920	.6080	.1530	-.1630	-.2340	-.3250	-.2880	-.1950	.1790	.0380	-.1650	-.2020	-.0740	.0090
30.000	1.4080		.6610	.1990	-.1310	-.2030	-.3010	-.2550	.0490	.0780	-.1160	-.2160	-.0450	-.0800	-.0970
60.000	1.4080		.7080	.2420	-.0980	-.1790	-.2720	-.2300	.2300	.0240	-.4510	-.0810	.0220	-.0050	-.0400
90.000	1.4080	1.3700	.7270	.2600	-.0830	-.1730	-.2610	-.2190	.3500	-.3050	-.6670	-.0830	-.0680	-.1010	-.1360
120.000	1.4080		.7090	.2470	-.0960	-.1770	-.2620	-.2220	.3200	.1150	-.2350	.0350	.0640	.0870	-.0980
135.000	1.4080							-.2370		.2850		-.0730		.0880	
150.000	1.4080		.6700	.2100	-.1250	-.2060	-.2840	-.2470	.2080	.4280	.0010	-.1360	.1380	.1090	-.0980
165.000	1.4080			.1860	-.1430	-.2200	-.2990	-.2620	.2100	.4930	-.0190		.0280		-.1370
180.000	1.4080	1.2930	.6160	.1520	-.1630	-.2380	-.3190	-.2770	.1350	.5320	-.0420	-.1770	-.0940	.0330	-.1750
270.000	1.4080	1.2050													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0350	-.0340	-.0490
30.000	-.0340	-.0210	-.0220
60.000	-.0090	-.0290	-.0440
90.000			-.1630
120.000	-.0080	.2980	.0260
135.000	-.0730	.2870	.0260
150.000	-.1510	.2880	.0300
165.000		.1770	.0760
180.000	-.2390		

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0492	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4210	1.3000	.6170	.1580	-.1580	-.2310	-.3240	-.2810	-.1840	.1870	.0610	-.1460	-.2110	-.0540	-.0030
30.000	1.4210		.6140	.1540	-.1640	-.2320	-.3230	-.2810	.0510	.1110	-.0250	-.2010	-.0850	-.0580	-.0900
60.000	1.4210		.6190	.1570	-.1590	-.2350	-.3170	-.2780	.1350	.0590	-.3980	-.0470	.0030	-.0420	-.0330
90.000	1.4210	1.3040	.6250	.1620	-.1540	-.2370	-.3160	-.2740	.3770	-.2930	-.5020	-.1000	.0250	-.1270	-.1260
120.000	1.4210		.6220	.1630	-.1540	-.2320	-.3090	-.2700	.2820	.1630	-.2260	-.0390	.1080	.0400	-.1420
135.000	1.4210							-.2710		.3120		-.1300		.0410	
150.000	1.4210		.6290	.1730	-.1550	-.2320	-.3070	-.2680	.1440	.2980	-.0080	-.1100	.0040	.0410	-.1420
165.000	1.4210			.1660	-.1560	-.2310	-.3090	-.2690	.1520	.3050	-.0400		-.0700		-.1410
180.000	1.4210	1.3100	.6280	.1600	-.1560	-.2320	-.3100	-.2690	.1600	.3130	-.0620	-.0520	-.1900	.0710	-.1290
270.000	1.4210	1.3000													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0030	-.0230	-.0450
30.000	-.0030	-.0130	-.0140
60.000	-.0030	-.0220	-.0320
90.000			-.0960
120.000	-.0490	.1440	-.0930
135.000	-.1150	.1410	-.0660
150.000	-.1340	.1260	-.0670
165.000		-.0140	-.0940
180.000	-.1370		

MACH (2) = 1.251 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0492	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4100	1.2850	.6000	.1510	-.1640	-.2370	-.3260	-.2840	-.1870	.1680	.0390	-.1640	-.2000	-.0780	-.0080
30.000	1.4100		.5530	.1080	-.2000	-.2630	-.3490	-.3010	.0640	.0680	.0080	-.2050	-.1580	-.0740	-.0970
60.000	1.4100		.5240	.0800	-.2090	-.2820	-.3560	-.3140	.0350	.1090	-.3440	-.0350	-.0510	-.0640	-.0210
90.000	1.4100	1.2080	.5200	.0730	-.2130	-.2850	-.3580	-.2240	.3620	-.2930	-.3560	-.1000	-.0020	-.1240	-.1230
120.000	1.4100		.5300	.0870	-.2060	-.2780	-.3460	-.1220	.0700	.2300	-.1470	-.0730	-.0160	.0210	-.1800
135.000	1.4100							-.1110		.1820		-.0990		.0060	
150.000	1.4100		.5730	.1230	-.1900	-.2630	-.3370	-.2660	.1380	.2510	-.0660	-.2010	-.0690	.0060	-.1950
165.000	1.4100			.1410	-.1750	-.2500	-.3260	-.2650	.1280	.3540	-.1510		-.1490		-.1900
180.000	1.4100	1.3040	.6230	.1570	-.1610	-.2350	-.3160	-.2740	.1730	.5190	-.1490	-.1770	-.1030	.0510	-.1890
270.000	1.4100	1.3680													

X/LT	.7449	.8528	.9290
PHI			

MACH (2) = 1.251 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0310	-.0410	-.0450
30.000	-.0080	-.0300	-.0450
60.000	.0010	-.0280	-.0450
90.000			-.0910
120.000	-.0710	.0310	-.0910
135.000	-.0710	.0320	-.1200
150.000	-.1110	.0310	-.1220
165.000		-.1840	-.1650
180.000	-.2390		

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0099	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3700	1.2410	.5770	.1320	-.1780	-.2510	-.3420	-.3060	-.1400	.0980	-.0300	-.2040	-.1510	-.1200	-.0490
30.000	1.3700		.4880	.0530	-.2410	-.3020	-.3900	-.3440	.0540	.0260	-.1130	-.2430	-.1800	-.0900	-.0360
60.000	1.3700		.4360	.0080	-.2670	-.3360	-.4020	-.3500	-.0130	.1660	-.2750	-.0430	-.1370	-.0660	-.0210
90.000	1.3700	1.0980	.4260	-.0010	-.2740	-.3450	-.4060	-.0740	.9280	-.2790	-.1460	-.1200	-.0520	-.1220	-.0830
120.000	1.3700		.4560	.0130	-.2670	-.3360	-.4000	-.0450	.0150	.2750	-.1260	-.1700	-.0660	-.0200	-.2250
135.000	1.3700							-.0320		.1810		-.1680		-.0350	
150.000	1.3700		.4970	.0640	-.2370	-.3100	-.3810	-.1680	.0890	.2740	-.1390	-.2620	.0410	-.0840	-.2970
165.000	1.3700			.0990	-.2080	-.2870	-.3610	-.3170	.1590	.3570	-.2420		.0430		-.3570
180.000	1.3700	1.2620	.5900	.1390	-.1790	-.2550	-.3310	-.2920	.1980	.5130	-.1700	-.2690	-.0350	-.0130	-.2540
270.000	1.3700	1.4080													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0810	-.0470	-.0470
30.000	.0040	-.0380	-.0620
60.000	.0420	-.0390	-.0440
90.000			-.1070
120.000	.0420	.0290	-.1060
135.000	-.0200	.0190	-.1660
150.000	-.1000	-.1350	-.2120
165.000		-.2360	-.2190
180.000	-.3550		

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.099 BETAT (1) = -8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2780	1.2190	.5770	.1170	-.2490	-.3190	-.4100	-.3510	.1200	.0760	-.1110	-.2310	-.1410	-.1050	-.0380
30.000	1.2780		.6880	.1990	-.1640	-.2450	-.3480	-.2730	.1450	.0130	-.2390	-.0460	-.0420	-.0610	-.0880
60.000	1.2780		.7590	.2740	-.1040	-.1840	-.2920	.0620	.3140	-.0620	-.4870	.0150	.0390	.0120	-.0120
90.000	1.2780	1.3260	.7660	.2760	-.1020	-.1900	-.2970	.2330	.5110	-.4890	-.3870	.0240	.0420	-.0210	-.0590
120.000	1.2780		.6950	.2150	-.1610	-.2390	-.3350	.0230	.2550	-.1120	-.1760	.1130	.1350	.0660	-.0900
135.000	1.2780							-.2390		.0600		.1370		.0340	
150.000	1.2780		.5840	.1220	-.2490	-.3180	-.4050	-.3500	.1940	.2430	-.1490	.1050	.1230	-.0350	-.1440
165.000	1.2780			.0610	-.2850	-.3550	-.4360	-.1750	.1900	.3850	-.1480		.0490		-.2320
180.000	1.2780	1.1310	.4760	.0120	-.3120	-.3870	-.4260	-.0560	.1260	.4080	-.2270	-.2270	-.0210	-.1980	-.3420
270.000	1.2780	1.0130													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0920	-.0520	-.0850
30.000	-.0540	.0110	-.0580
60.000	.0230	.0450	-.0570
90.000			-.1760
120.000	.2010	.3180	.0950
135.000	.2280	.3590	.1120
150.000	.2350	.3980	.0940
165.000		.3840	.1070
180.000	.0680		

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3200	1.2580	.6090	.1350	-.2230	-.3030	-.3990	-.3360	.1750	.1510	-.0540	-.2580	-.1030	.0030	.0330
30.000	1.3200		.6580	.1870	-.1980	-.2720	-.3780	-.3050	.1910	.1040	-.1890	-.0980	-.0620	.0030	-.0290
60.000	1.3200		.6790	.1920	-.1740	-.2520	-.3560	-.1820	.3410	-.0160	-.4820	.0150	.0190	.0120	.0000
90.000	1.3200	1.2840	.6640	.1780	-.1800	-.2710	-.3680	.1000	.5270	-.4980	-.4190	.0470	.0520	.0020	-.0410
120.000	1.3200		.6130	.1400	-.2210	-.2990	-.3900	-.1350	.3100	-.0550	-.2440	.1370	.1150	.0250	-.1450
135.000	1.3200							-.2440		.1370		.1810		.0000	
150.000	1.3200		.5540	.0870	-.2670	-.3390	-.4220	-.1020	.2090	.2830	-.1940	.1750	.1150	-.0410	-.1850

AMES 11-707 1A9 CBA + S3 + T9 EXTERNAL TANK (RBNTZ6)

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3200			.0610	-.2850	-.3600	-.4370	-.0320	.1670	.4010	-.2240		.0870		-.1690
180.000	1.3200	1.1680	.5010	.0290	-.3050	-.3750	-.1620	-.0140	.1080	.4080	-.2230	-.0430	.0560	-.1070	-.2380
270.000	1.3200	1.1320													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0890	-.0440	-.0290
30.000	-.0300	-.0050	-.0380
60.000	-.0210	.0060	-.0810
90.000			-.2000
120.000	.1250	.2130	.0130
135.000	.1590	.2340	.0450
150.000	.1830	.2430	.0240
165.000		.1190	.0250
180.000	.1360		

MACH (1) = 1.100 BETAT (3) = .000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3340	1.2640	.6160	.1410	-.2200	-.2980	-.3970	-.3340	.1790	.1720	-.0110	-.2470	-.0570	.0410	.0420
30.000	1.3340		.6080	.1230	-.2330	-.3100	-.4070	-.3420	.1770	.1420	-.1280	-.1950	-.0620	.0380	-.0140
60.000	1.3340		.5840	.1070	-.2420	-.3230	-.4130	-.1760	.3220	.0290	-.4260	-.0010	-.0170	.0230	-.0080
90.000	1.3340	1.2180	.5610	.0860	-.2590	-.3420	-.4320	.0230	.5520	-.4980	-.4160	.0710	.0310	-.0190	-.0580
120.000	1.3340		.5300	.0640	-.2770	-.3550	-.4360	.0060	.3120	.0010	-.3940	.1510	.0780	-.0440	-.1990
135.000	1.3340							-.0090		.1770		.1570		-.0550	
150.000	1.3340		.5180	.0530	-.2920	-.3650	-.3260	-.0140	.1250	.2670	-.1630	.0960	.0700	-.0770	-.2000
165.000	1.3340			.0460	-.2950	-.3700	-.1500	.0030	.1260	.2850	-.0800		.0710		-.1990
180.000	1.3340	1.1830	.5150	.0390	-.2980	-.3690	-.0880	.0170	.1280	.3030	-.0780	.0260	.0770	-.0580	-.1980
270.000	1.3340	1.2230													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0570	-.0580	-.0520
30.000	-.0970	-.0360	-.0370
60.000	-.0150	-.0180	-.0630
90.000			-.1700
120.000	.0730	.0750	-.0420
135.000	.1010	.0800	-.0620
150.000	.1180	.0970	-.0890

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1800	-.1260
180.000	.1380		

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3220	1.2420	.6000	.1280	-.2200	-.3040	-.3970	-.3380	.1760	.1480	-.0580	-.2580	-.1020	.0000	.0340
30.000	1.3220		.5380	.0720	-.2730	-.3440	-.4370	-.3580	.1440	.1210	-.0980	-.2370	-.1000	.0010	-.0180
60.000	1.3220		.4860	.0220	-.3040	-.3750	-.4550	-.0190	.1790	.0870	-.3720	-.0750	-.0790	.0160	-.0210
90.000	1.3220	1.1260	.4640	-.0050	-.3180	-.3970	-.4400	-.0170	.6070	-.4980	-.2580	.0100	-.0120	-.0410	-.0990
120.000	1.3220		.4460	-.0110	-.3250	-.3960	-.1400	-.0160	.1740	.0720	-.3400	.0520	.0420	-.0850	-.2410
135.000	1.3220							-.0090		.1980		.0430		-.1050	
150.000	1.3220		.4680	.0100	-.3210	-.3920	-.0350	.0030	.1220	.2710	-.2220	.0410	.0200	-.1400	-.2770
165.000	1.3220			.0200	-.3100	-.3840	-.0520	.0060	.1050	.2870	-.3100		.0260		-.2980
180.000	1.3220	1.1790	.5090	.0360	-.3050	-.3700	-.2730	-.0210	.1130	.4260	-.3060	.0040	.0640	-.1110	-.2490
270.000	1.3220	1.2880													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0720	-.0450	-.0100
30.000	-.0600	-.0130	-.0490
60.000	.0020	.0120	-.0860
90.000			-.1500
120.000	.0740	.0350	-.1210
135.000	.0920	.0080	-.1240
150.000	.1110	-.0390	-.1500
165.000		-.1770	-.1610
180.000	.1440		

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT2B)

MACH (1) = 1.098 BETAT (5) = 8.260

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2810	1.2050	.5770	.1120	-.2380	-.3190	-.4110	-.3550	.1100	.0680	-.1180	-.1990	-.1450	-.1090	-.0450
30.000	1.2810		.4680	.0180	-.3240	-.3920	-.4790	-.1130	.1080	.1170	-.1130	-.2420	-.1390	-.0900	-.0440
60.000	1.2810		.3920	-.0550	-.3630	-.4250	-.2210	-.0620	.0200	.1580	-.2790	-.1585	-.1090	-.0570	-.0480
90.000	1.2810	1.0120	.3670	-.0880	-.3760	-.4450	-.1100	-.0390	.6000	-.4480	-.0040	-.1460	-.0330	-.0730	-.1710
120.000	1.2810		.3550	-.0840	-.3760	-.4410	-.0750	-.0510	.0620	.1260	-.1210	-.0960	.0070	-.1290	-.3010
135.000	1.2810							-.0430		.1510		-.0190		-.1580	
150.000	1.2810		.3580	-.0440	-.3620	-.4290	-.0370	-.0310	.0720	.2260	-.2910	-.0080	-.0380	-.2180	-.3580
165.000	1.2810			-.0180	-.3430	-.4140	-.0620	-.0490	.0680	.2800	-.4280		-.0370		-.4470
180.000	1.2810	1.1320	.4730	.0120	-.3190	-.3860	-.4330	-.0590	.1370	.4020	-.4260	-.2180	-.0850	-.2180	-.3490
270.000	1.2810	1.3270													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0880	-.0390	-.0840
30.000	-.0350	-.0080	-.0820
60.000	.0140	.0210	-.0810
90.000			-.1530
120.000	.0700	.0280	-.1430
135.000	.0890	.0010	-.1940
150.000	.0360	-.2020	-.2230
165.000		-.2380	-.2230
180.000	.0540		

MACH (2) = 1.247 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3830	1.2980	.6360	.1900	-.1410	-.2170	-.3090	-.2690	-.1580	.1250	-.0010	-.1090	-.1340	-.1180	-.0680
30.000	1.3830		.7440	.2730	-.0880	-.1430	-.2430	-.2370	.0960	.0340	-.1650	-.1790	-.0140	-.0480	-.0870
60.000	1.3830		.8170	.3490	-.0120	-.0960	-.1990	-.1920	.3550	.0820	-.4190	-.0480	-.2580	.0290	.0130	-.0390
90.000	1.3830	1.4040	.8220	.3460	-.0080	-.0930	-.1960	-.1970	.5550	-.3030	-.6080	-.2240	.0290	.0130	-.0390
120.000	1.3830		.7490	.2880	-.0640	-.1450	-.2910	-.1980	.2330	-.0820	-.2190	.0980	-.2740	.1190	-.0220
135.000	1.3830							-.2350		.1990		.0190		-.0870	
150.000	1.3830		.8420	.1940	-.1410	-.2180	-.2990	-.2870	.0390	.3180	.0130	-.0140	.1710	-.0430	-.0250
165.000	1.3830			.1350	-.1830	-.2350	-.3290	-.2980	.1140	.4880	.0280		.0280		-.0870
180.000	1.3830	1.2070	.9330	.0870	-.2150	-.2890	-.3630	-.3240	.0820	.5170	-.0320	-.2720	-.1540	-.0180	-.2140
270.000	1.3830	1.0890													

X/L*	.7449	.8528	.9290
PHI			

AMES 11-FT TAS CRA • 55 • TO EXTERNAL TANK (RUN728)

MACH (2) = 1.247 BETAT (1) = -8.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8328	.9290
PHI			
.000	-.0790	-.0180	-.0350
30.000	-.0810	-.0030	-.0010
60.000	.0050	-.0010	-.0020
90.000			-.2440
120.000	.1080	.3430	.1860
133.000	.0490	.4080	.2210
150.000	-.0390	.4470	.2190
165.000		.4560	.2150
180.000	-.3030		

MACH (2) = 1.250 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4020	1.3330	.6880	.2060	-.1190	-.1950	-.2880	-.2310	-.1820	.2010	.0660	-.1310	-.1790	-.0740	-.0140
30.000	1.4020		.7110	.2450	-.0930	-.1640	-.2640	-.2210	.0760	.1130	-.0730	-.1710	-.0500	-.0430	-.0390
60.000	1.4020		.7350	.2680	-.0720	-.1560	-.2300	-.2070	.2720	.0930	-.3840	-.0220	.0250	.0310	-.0300
90.000	1.4020	1.3640	.7220	.2370	-.0810	-.1700	-.2590	-.2190	.5390	-.3000	-.4280	.0130	.0440	.0350	-.0370
120.000	1.4020		.6740	.2150	-.1180	-.1990	-.2780	-.2370	.2220	.0420	-.3050	-.0070	.0410	.0730	-.0480
133.000	1.4020							-.2620		.2120		-.0690		.0730	
150.000	1.4020		.6120	.1620	-.1590	-.2360	-.3130	-.2730	.1590	.3730	-.0110	-.1610	.1480	.0820	-.0720
165.000	1.4020			.1350	-.1800	-.2530	-.3270	-.2880	.1210	.4480	-.0340		.0290		-.1070
180.000	1.4020	1.2450	.5810	.1030	-.1940	-.2670	-.3420	-.2970	.0790	.4020	-.0550	-.1430	-.1581	.1180	-.1450
270.000	1.4020	1.2030													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0360	-.0140	-.0250
30.000	-.0350	.0030	-.0050
60.000	.0150	.0030	-.0230
90.000			-.1820
120.000	.0030	.2870	.0900
133.000	-.0320	.2970	.0780
150.000	-.0790	.3050	.0870
165.000		.1851	.0810
180.000	-.2700		

AMES 11-FOOT 2A9 CPA + 33 + 19 EXTERNAL TANK (RBW'PB)

MACH (2) = 1.248 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.4175	1.3410	.6720	.2110	-.1170	-.1620	-.2090	-.2520	-.1700	.2170	.0830	-.1170	-.1680	-.0590	-.0010
30.000	1.4175		.6630	.1970	-.1290	-.2020	-.2970	-.2510	.0790	.1690	.0330	-.1630	-.0780	-.0810	-.0330
60.000	1.4175		.6440	.1800	-.1390	-.2180	-.3130	-.2620	.1710	.1270	-.3550	-.0270	-.0050	-.0330	-.0270
90.000	1.4175	1.2960	.6230	.1590	-.1540	-.2370	-.3160	-.2760	.1440	-.2990	-.4350	.0410	.0280	.0190	-.0830
120.000	1.4175		.5920	.1400	-.1720	-.2430	-.3240	-.2840	.2690	.0830	-.2950	.0970	.0450	.0440	-.1110
135.000	1.4175							-.2900		.2540		-.0590		.0480	
150.000	1.4175		.5780	.1320	-.1880	-.2810	-.3420	-.2540	.1790	.2250	-.0080	-.1580	.0020	.0550	-.1190
165.000	1.4175			.1200	-.1920	-.2620	-.3380	-.2810	.1130	.2270	-.0290		-.0810		-.1190
180.000	1.4175	1.2800	.5740	.1130	-.1890	-.2640	-.3430	-.2940	.0980	.2880	-.0290	-.0690	-.2380	.1230	-.1110
270.000	1.4175	1.2970													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0020	-.0040	-.0390
30.000	-.0010	.0090	-.0090
60.000	.0000	.0140	-.0350
90.000			-.1170
120.000	-.0530	.1420	-.0590
135.000	-.0330	.1430	-.0170
150.000	-.0960	.1120	-.0180
165.000		-.0120	-.0650
180.000	-.0920		

MACH (2) = 1.248 BETAT (4) = 4.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.4040	1.3190	.6340	.2010	-.1300	-.2060	-.2970	-.2560	-.1740	.1910	.0520	-.1400	-.1890	-.0890	-.0080
30.000	1.4040		.5950	.1430	-.1730	-.2400	-.3320	-.2870	.0820	.1460	-.0350	-.1980	-.1360	-.0720	-.0400
60.000	1.4040		.5460	.0960	-.2010	-.2780	-.3560	-.3130	.078	.1770	-.2840	-.0290	-.0870	-.0550	-.0270
90.000	1.4040	1.2080	.5220	.0750	-.2170	-.2960	-.3690	-.3210	.5790	-.3080	-.3420	.0220	-.0190	-.0190	-.0830
120.000	1.4040		.5050	.0660	-.2250	-.2960	-.3660	-.3070	.0770	.1620	-.2400	-.0430	-.0250	.0310	-.1900
135.000	1.4040							-.2540		.2270		-.1120		.0280	
150.000	1.4040		.5290	.0860	-.2190	-.2950	-.3600	-.2140	.0920	.2400	-.0350	-.2400	-.0750	.0100	-.1730
165.000	1.4040			.0970	-.2110	-.2830	-.3570	-.2790	.1000	.2562	-.1270		-.1550		-.1910
180.000	1.4040	1.2580	.5680	.1080	-.2010	-.2710	-.3490	-.3010	.0780	.4070	-.1410	-.1610	-.1360	.0830	-.1550
270.000	1.4040	1.3660													

X/LT	.7449	.8528	.9290
PHI			

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0290	-.0200	-.0290
30.000	-.0300	-.0210	-.0470
60.000	.0170	-.0130	-.0450
90.000			-.1030
120.000	-.0320	.0260	-.0670
135.000	-.0300	-.0010	-.0860
150.000	-.0240	-.0380	-.0990
165.000		-.1970	-.1440
180.000	-.1890		

MACH (2) = 1.247 BETAT (5) = 8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3650	1.2820	.6320	.1820	-.1440	-.2200	-.3120	-.2750	-.1350	.1080	-.0160	-.1740	-.1270	-.1220	-.0680
30.000	1.3650		.5240	.0850	-.2230	-.2980	-.3750	-.3340	.0720	.1200	-.0140	-.2080	-.1500	-.1100	-.0840
60.000	1.3650		.4900	.0160	-.2670	-.3340	-.4030	-.3630	-.0070	.2520	-.2050	-.0240	-.1360	-.0670	-.0480
90.000	1.3650	1.0900	.4220	-.0120	-.2810	-.3510	-.4130	-.1070	.5750	-.2830	-.1600	-.0150	-.1470	-.0180	-.0840
120.000	1.3650		.4110	-.0090	-.2820	-.3470	-.4080	-.0690	.0140	.2100	-.1680	-.1420	-.0830	.0010	-.1480
135.000	1.3650							-.0500		.1410		-.1550		-.0140	
150.000	1.3650		.4530	.0250	-.2640	-.3330	-.4010	-.0640	.0760	.2730	-.1210	-.2770	-.0050	-.0440	-.2240
165.000	1.3650			.0470	-.2450	-.3190	-.3840	-.3240	.1310	.3060	-.2250		-.0780		-.2980
180.000	1.3650	1.2130	.5300	.0860	-.2230	-.2930	-.3670	-.3280	.1020	.4640	-.1670	-.2770	-.1430	.0160	-.2090
270.000	1.3650	1.4050													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0860	-.0250	-.0400
30.000	.0160	-.0230	-.0570
60.000	.0900	-.0280	-.0450
90.000			-.1340
120.000	.0400	.0480	-.1020
135.000	.0180	.0360	-.1460
150.000	-.0160	-.1170	-.2000
165.000		-.2370	-.1980
180.000	-.2970		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7X7 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT27) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.097 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2700	1.2430	.6260	.1610	-.2000	-.2840	-.3830	-.3180	.1310	.0850	-.0690	-.1880	-.1340	-.1090	-.0430
30.000	1.2700		.7930	.2480	-.1250	-.2090	-.3170	-.2430	.1660	.0430	-.2230	-.0310	-.0320	-.0330	-.0800
60.000	1.2700		.7860	.2990	-.0820	-.1670	-.2750	.0760	.3540	-.0120	-.4510	.0160	.0520	.0390	.0040
90.000	1.2700	1.3140	.7570	.2720	-.1000	-.1960	-.2970	.2280	.4900	-.5000	-.3770	-.0130	.0750	.0610	.0030
120.000	1.2700		.6550	.1850	-.1810	-.2620	-.3560	-.0070	.1910	-.1880	-.2690	.0200	.1040	.0820	-.0520
135.000	1.2700							-.2120		-.0110		.0970		.0420	
150.000	1.2700		.5280	.0800	-.2760	-.3560	-.4360	-.2810	.1240	.1980	-.0800	.0930	.1030	-.0330	-.1080
165.000	1.2700			.0210	-.3200	-.3910	-.4650	-.0760	.1070	.3470	-.1460		.0410		-.1970
180.000	1.2700	1.0840	.4270	-.0300	-.3490	-.4170	-.1840	-.0600	.0610	.3730	-.1480	-.1920	-.0330	-.1850	-.2970
270.000	1.2700	1.0070													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0820	-.0200	-.0650
30.000	-.0380	.0590	-.0300
60.000	.0420	.0980	-.0320
90.000			-.2630
120.000	.1880	.3160	.1260
135.000	.2020	.3600	.1120
150.000	.2140	.3910	.0920
165.000		.3920	.1150
180.000	.0590		

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3100	1.2840	.6360	.1800	-.1850	-.2690	-.3690	-.3060	.2080	.1710	-.0240	-.2170	-.0980	-.0110	.0480
30.000	1.3100		.6980	.2090	-.1590	-.2440	-.3460	-.2770	.2240	.1340	-.1570	-.0750	-.0610	.0200	-.0040
60.000	1.3100		.7000	.2110	-.1540	-.2400	-.3410	-.2250	.3760	.0310	-.4100	-.0030	.0090	.0430	.0190
90.000	1.3100	1.2730	.6550	.1730	-.1840	-.2730	-.3700	.0800	.5100	-.5140	-.3880	-.0220	.0710	.0490	-.0270
120.000	1.3100		.5770	.1110	-.2410	-.3140	-.4070	-.0600	.2560	-.1250	-.2260	.0390	.0880	.0430	-.1050
135.000	1.3100							-.0930		.0690		.1520		.0190	
150.000	1.3100		.3050	.0490	-.2970	-.3670	-.4470	-.0330	.1360	.2350	-.2000	.1660	.0940	-.0280	-.1310

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3100			.0140	-.3220	-.3870	-.2260	-.0350	.0890	.3370	-.2190		.0630		-.1560
180.000	1.3100	1.1200	.4560	-.0120	-.3320	-.4000	-.0470	-.0120	.0660	.3240	-.2210	.0310	.0420	-.0870	-.1980
270.000	1.3100	1.1220													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0510	-.0310	.0100
30.000	.0030	.0210	.0120
60.000	.0280	.0350	-.0490
90.000			-.2430
120.000	.1040	.2170	.0520
135.000	.1370	.2370	.0490
150.000	.1680	.2380	.0360
165.000		.1010	.0420
180.000	.1260		

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3240	1.2930	.6660	.1840	-.1810	-.2660	-.3690	-.3040	.2130	.1970	-.0080	-.2140	-.0590	.0210	.0590
30.000	1.3240		.6480	.1620	-.2060	-.2830	-.3820	-.3130	.2000	.1770	-.1100	-.1480	-.0700	.0220	.0050
60.000	1.3240		.6050	.1220	-.2300	-.3100	-.4050	-.1000	.3270	.0800	-.3640	-.0290	-.0350	.0280	.0140
90.000	1.3240	1.2090	.5550	.0770	-.2650	-.3480	-.4360	.0290	.5410	-.5330	-.3870	-.0050	.0340	.0140	-.0600
120.000	1.3240		.5010	.0560	-.3020	-.3750	-.4360	.0120	.2820	-.0700	-.2140	.0850	.0710	-.0210	-.1710
135.000	1.3240							-.0250		.1320		.1320		-.0420	
150.000	1.3240		.4780	.0130	-.3220	-.3940	-.2020	-.0360	.0880	.2420	-.1570	.1010	.0630	-.0870	-.1710
165.000	1.3240			.0000	-.3300	-.3980	-.0550	-.0220	.0900	.2600	-.0530		.0630		-.1710
180.000	1.3240	1.2380	.4680	-.0050	-.3300	-.3990	-.0430	-.0110	.0970	.2660	-.0490	.0880	.0710	-.0500	-.1980
270.000	1.3240	1.2180													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0390	-.0580	.0060
30.000	-.0590	-.0380	-.0380
60.000	.0379	-.0030	-.0390
90.000			-.1690
120.000	.0810	.1030	-.0430
135.000	.0870	.0870	-.0310
150.000	.1090	.0940	-.0730

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT27)

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
185.000		-.1720	-.0980
180.000	.1300		

MACH (1) = 1.099 BETAT (4) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3120	1.2730	.6490	.1770	-.1820	-.2680	-.3730	-.3050	.1940	.1680	-.0290	-.2160	-.1070	-.0140	.0440
30.000	1.3120		.5770	.1080	-.2470	-.3230	-.4190	-.3510	.1760	.1700	-.0640	-.2160	-.1070	-.0080	-.0160
60.000	1.3120		.5020	.0400	-.2950	-.3680	-.4560	-.0070	.1850	.1400	-.3000	-.0900	-.0950	.0130	.0010
90.000	1.3120	1.1180	.4370	-.0090	-.3230	-.4050	-.4840	-.0270	.5780	-.5150	-.3670	-.0370	.0030	-.0180	-.1170
120.000	1.3120		.4190	-.0310	-.3420	-.4140	-.2150	-.0420	.1800	.0010	-.2500	.0720	.0480	-.0880	-.2180
135.000	1.3120							-.0380		.1800		.0490		-.0880	
150.000	1.3120		.4260	-.0280	-.3460	-.4150	-.0620	-.0300	.0770	.2160	-.1500	.0200	.0230	-.1170	-.2340
165.000	1.3120			-.0220	-.3400	-.4110	-.0390	-.0090	.0910	.2260	-.2190		.0200		-.2430
180.000	1.3120	1.1310	.4810	-.0110	-.3330	-.4020	-.0550	-.0240	.0710	.3350	-.2810	.0490	.0360	-.0990	-.2090
270.000	1.3120	1.2810													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0520	-.0390	.0070
30.000	-.0340	-.0270	-.0280
80.000	.0420	.0180	-.0570
90.000			-.1290
120.000	.0790	.0810	-.1180
135.000	.0940	.0370	-.1090
150.000	.1000	-.0040	-.1410
165.000		-.1520	-.1530
180.000	.1250		

AMES 11-707 IA9 Q2A + 53 + V9 EXTERNAL TANK

MACH (1) = 1.101 BETAT (5) = 0.260

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2710	1.2330	.6260	.1610	-.1970	-.2810	-.3620	-.3170	.1260	.0780	-.0940	-.1610	-.1330	-.1080	-.0330
30.000	1.2710		.5010	.0470	-.3000	-.3690	-.4620	-.2800	.1240	.1350	-.0930	-.2300	-.1520	-.0770	-.0340
60.000	1.2710		.4030	-.0410	-.3530	-.4260	-.1810	-.0560	.0310	.1550	-.1810	-.1650	-.1390	-.0550	-.0240
90.000	1.2710	1.0020	.3620	-.0890	-.3820	-.4490	-.1060	-.0590	.5110	-.4790	-.1880	-.2270	-.0240	-.0690	-.1580
120.000	1.2710		.3380	-.0990	-.3870	-.4490	-.0900	-.0560	.0650	.0800	-.0950	-.1020	.0200	-.1100	-.2780
135.000	1.2710							-.0490		.1360		-.0370		-.1410	
150.000	1.2710		.3610	-.0720	-.3810	-.4440	-.0520	-.0400	.0570	.2280	-.2730	-.0490	-.0220	-.1910	-.3160
165.000	1.2710			-.0570	-.3690	-.4380	-.0570	-.0470	.0390	.2490	-.4170		-.0500		-.3970
180.000	1.2710	1.0880	.4230	-.0310	-.3520	-.4170	-.1940	-.0650	.0720	.3770	-.4150	-.2280	.0010	-.1990	-.3090
270.000	1.2710	1.3180													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0720	-.0240	-.0710
30.000	-.0360	-.0130	-.0720
60.000	.0290	.0270	-.0720
90.000			-.1440
120.000	.0810	.0460	-.1440
135.000	.0810	.0010	-.1840
150.000	.0880	-.1840	-.2050
165.000		-.2320	-.2120
180.000	.0580		

MACH (2) = 1.249 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3520	1.3190	.6830	.2290	-.1060	-.1850	-.2830	-.2450	-.1380	.1280	.0180	-.1380	-.1150	-.1000	-.0720
30.000	1.3520		.7900	.3180	-.0350	-.1110	-.2200	-.1750	.1480	.0730	-.1460	-.1220	-.0060	-.0240	-.0700
60.000	1.3520		.6440	.3690	.0100	- 0790	-.1800	-.1360	.3870	.1100	-.3650	-.0430	.0430	.0480	.0080
90.000	1.3520	1.3930	.8130	.3430	-.0130	-.1030	-.2010	-.1610	.5430	-.3080	-.3790	-.0730	.0540	.0840	.0100
120.000	1.3520		.7110	.2560	-.0890	-.1720	-.2560	-.2210	.1700	-.1160	-.1170	-.0800	.0290	.1050	.0110
135.000	1.3520							-.2600		-.0370		-.0610		.0860	
150.000	1.3520		.9900	.1500	-.1770	-.2520	-.3310	-.2970	.0910	.2480	.0100	-.0830	.1170	.0510	.0000
165.000	1.3520			.0910	-.2160	-.2880	-.3590	-.3260	.0600	.3820	.0140		-.0040		-.0550
180.000	1.3520	1.1610	.4230	.0490	-.2440	-.3130	-.3890	-.3460	.0430	.3920	.0130	-.2030	-.1890	-.1620	-.1520
270.000	1.3520	1.0800													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT27)

MACH (2) = 1.249 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0840	.0075	-.0290
30.000	-.0990	.0150	.0260
60.000	.0090	.0320	.0260
90.000			-.3010
120.000	.0900	.3540	.2200
135.000	.0900	.3980	.2070
150.000	.0320	.4240	.1930
165.000		.4350	.2130
180.000	-.2530		

MACH (2) = 1.247 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3910	1.3580	.7110	.2500	-.0900	-.1690	-.2670	-.2270	-.1610	.2240	.0810	-.1080	-.1520	-.0840	-.0140
30.000	1.3910		.7320	.2820	-.0660	-.1400	-.2430	-.1990	.1020	.1500	-.0410	-.1340	-.0300	-.0450	-.0350
60.000	1.3910		.7540	.2840	-.0610	-.1440	-.2400	-.1980	.3120	.1350	-.3330	-.0400	.0260	.0060	-.0250
90.000	1.3910	1.3530	.7110	.2460	-.0920	-.1770	-.2670	-.2260	.5250	-.3200	-.3940	-.0800	.0510	.0710	-.0200
120.000	1.3910		.6390	.1830	-.1450	-.2230	-.3020	-.2650	.1530	-.0430	-.1470	-.0860	.0480	.0700	-.0310
135.000	1.3910							-.2890		.1430		-.1730		.0670	
150.000	1.3910		.5670	.1200	-.1950	-.2670	-.3420	-.3030	.1150	.2910	-.0290	-.0990	.1130	.0920	-.0570
165.000	1.3910			.0890	-.2150	-.2850	-.3570	-.3160	.0630	.3520	-.0440		-.0230		-.0900
180.000	1.3910	1.1980	.5110	.0640	-.2280	-.2970	-.3690	-.1760	.0540	.2990	-.0490	-.1340	-.1770	.1020	-.1290
270.000	1.3910	1.1980													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0330	.0030	-.0090
30.000	-.0190	.0260	.0190
60.000	.0320	.0360	-.0080
90.000			-.2220
120.000	-.0020	.2510	.1190
135.000	-.0190	.2770	.1180
150.000	-.0520	.2830	.1360
165.000		.1780	.1430
180.000	-.1490		

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4070	1.3670	.7180	.2550	-.0840	-.1620	-.2620	-.2240	-.1530	.2440	.1040	-.0910	-.1560	-.0520	-.0080
30.000	1.4070		.7020	.2420	-.1020	-.1760	-.2730	-.2310	.0770	.1700	.0310	-.1340	-.0740	-.0600	-.0580
60.000	1.4070		.6800	.2000	-.1280	-.2050	-.2930	-.2550	.1980	.1760	-.2810	-.0410	-.0090	-.0430	-.0290
90.000	1.4070	1.2870	.6130	.1530	-.1610	-.2410	-.3220	-.2810	.5580	-.3190	-.4150	-.0440	.0060	.0270	-.0300
120.000	1.4070		.5590	.1170	-.1930	-.2680	-.3400	-.2990	.1710	.0090	-.2600	-.0250	.0240	.0800	-.0690
135.000	1.4070							-.2950		.1500		-.1000		.0640	
150.000	1.4070		.5320	.0920	-.2120	-.2860	-.3540	-.1150	.0760	.1900	-.0030	-.1310	-.0050	.0640	-.0950
165.000	1.4070			.0820	-.2190	-.2880	-.3570	-.0840	.0750	.1970	.0080		-.0800		-.0690
180.000	1.4070	1.2160	.5240	.0760	-.2190	-.2910	-.3620	-.1860	.0570	.2380	-.0060	-.0940	-.2350	.1260	-.0900
270.000	1.4070	1.2900													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0070	.0070	-.0130
30.000	-.0090	.0160	-.0110
60.000	.0570	.0300	-.0110
90.000			-.1150
120.000	-.0270	.1300	.0020
139.000	-.0270	.1190	.0110
150.000	-.0430	.0970	-.0010
165.000		-.0250	-.0780
180.000	-.0580		

MACH (2) = 1.251 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3980	1.3490	.7050	.2510	-.0870	-.1650	-.2660	-.2250	-.1520	.2280	.0840	-.1050	-.1390	-.0880	-.0080
30.000	1.3980		.6340	.1810	-.1470	-.2120	-.3090	-.2650	.0830	.2030	.0850	-.1560	-.1220	-.0730	-.0430
60.000	1.3980		.5640	.1120	-.1860	-.2580	-.3380	-.3020	.0960	.2420	-.2170	-.0310	-.0670	-.0680	-.0280
90.000	1.3980	1.1980	.5160	.0650	-.2160	-.2920	-.3650	-.3210	.5690	-.3120	-.3810	-.0170	-.0850	.0070	-.0470
120.000	1.3980		.4800	.0490	-.2370	-.3030	-.3680	-.3120	.0690	.0920	-.2700	-.0210	-.0100	.0510	-.1240
135.000	1.3980							-.1630		.2010		-.1110		.0490	
150.000	1.3980		.4680	.0550	-.2370	-.3080	-.3700	-.0540	.0540	.1720	-.0070	-.2070	-.0110	.0310	-.1460
165.000	1.3980			.0600	-.2340	-.3030	-.3700	-.0380	.0700	.2080	-.0900		-.1390		-.1570
180.000	1.3980	1.2110	.5180	.0670	-.2270	-.2930	-.3670	-.2110	.0440	.2970	-.1200	-.1300	-.1870	.0910	-.1180
270.000	1.3980	1.3800													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT27)

MACH (2) = 1.251 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0310	-.0030	-.2080
30.000	-.0080	-.0070	-.0260
60.000	.0890	-.0080	-.0270
90.000			-.0860
120.000	-.0130	.0390	-.0330
135.000	-.0120	.0030	-.0480
150.000	-.0110	-.0560	-.0990
165.000		-.2220	-.1230
180.000	-.1510		

MACH (2) = 1.248 BETAT (5) = 8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.9027	.9565	.9872
PHI															
.000	1.3550	1.3100	.6820	.2250	-.1080	-.1850	-.2840	-.2460	-.1160	.1160	.0030	-.1450	-.1100	-.1070	-.0790
30.000	1.3550		.5580	.1170	-.2020	-.2670	-.3590	-.3200	.0800	.1590	.0050	-.1820	-.1360	-.1140	-.0740
60.000	1.3550		.4800	.0270	-.2600	-.3310	-.4020	-.3660	.0160	.3180	-.1390	-.0320	-.1220	-.1250	-.0570
90.000	1.3550	1.0810	.4170	-.0140	-.2850	-.3560	-.4190	-.1170	.5510	-.3060	-.2670	-.0480	-.2550	-.0200	-.1040
120.000	1.3550		.3920	-.0230	-.2890	-.3550	-.4180	-.0870	.0220	.1400	-.2100	-.1120	-.0990	.0120	-.1840
135.000	1.3550							-.0700		.1460		-.1490		-.0030	
150.000	1.3550		.4190	-.0010	-.2810	-.3490	-.4180	-.0620	.0630	.2550	-.1050	-.2700	-.0750	-.0280	-.1840
165.000	1.3550			.0170	-.2680	-.3400	-.4020	-.3130	.0790	.2510	-.2020		-.1920		-.2520
180.000	1.3550	1.1090	.4880	.0470	-.2500	-.3210	-.3940	-.3500	.0460	.3710	-.1620	-.2350	-.1540	-.0820	-.1560
270.000	1.3550	1.3980													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0730	-.0080	-.0280
30.000	.0150	-.0190	-.0450
60.000	.0930	-.0250	-.0480
90.000			-.1230
120.000	.0900	.0700	-.1230
135.000	.0500	.0420	-.1330
150.000	.0200	-.1000	-.1820
165.000		-.2280	-.1870
180.000	-.2660		

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .900
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.099 BETAT (1) = -8.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2530	1.2670	.6760	.2050	-.1610	-.2430	-.3460	-.2790	.1370	.1040	-.0590	-.1240	-.1110	-.0970	-.0290
30.000	1.2530		.7820	.2970	-.0760	-.1710	-.2790	-.2040	.2010	.0810	-.1820	.0020	-.0270	-.0090	-.0430
60.000	1.2530		.8110	.3260	-.0530	-.1450	-.2540	.1250	.3950	.0330	-.3800	.0320	.0430	.0350	.0400
90.000	1.2530	1.2990	.7470	.2640	-.1080	-.1980	-.3040	.2360	.4670	-.5310	-.3730	-.0900	.0580	.0930	.0290
120.000	1.2530		.6120	.1480	-.2140	-.2900	-.3840	-.0100	.1250	-.2710	-.3200	-.1150	.0800	.1130	-.0100
135.000	1.2530							-.0580		-.1070		-.0480		.0810	
150.000	1.2530		.4770	.0310	-.3140	-.3870	-.4610	-.0410	.0340	.1130	-.0570	.0100	.0420	.0240	-.0810
165.000	1.2530			-.0230	-.3540	-.4210	-.1170	-.0540	.0440	.2470	-.1250		-.0700		-.1440
180.000	1.2530	1.0310	.3830	-.0720	-.3760	-.4440	-.0540	-.0440	.0290	.2380	-.1850	-.0570	-.0730	-.1320	-.2790
270.000	1.2530	.9930													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0600	.0050	-.0520
30.000	.0330	.0950	.0030
60.000	.0730	.1490	.0030
90.000			-.1900
120.000	.1930	.3220	.1130
135.000	.2200	.3620	.1090
150.000	.2230	.3910	.0850
165.000		.3930	.1110
180.000	.0720		

MACH (1) = 1.098 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2910	1.3050	.7070	.2300	-.1460	-.2320	-.3360	-.2710	.2200	.1870	-.0030	-.1670	-.0890	-.0380	.0510
30.000	1.2910		.7450	.2340	-.1240	-.2070	-.3160	-.2410	.2460	.1610	-.1090	-.0570	-.0510	.0110	.0020
60.000	1.2910		.7190	.2340	-.1370	-.2250	-.3260	-.2090	.4050	.0750	-.3410	.0030	-.0140	.0800	.0390
90.000	1.2910	1.2570	.6450	.1630	-.1940	-.2830	-.3770	.0720	.4720	-.5500	-.3630	-.1100	.0370	.0690	-.0100
120.000	1.2910		.5400	.0760	-.2710	-.3470	-.4310	-.0660	.1730	-.2050	-.3250	-.0810	.0810	.0680	-.0740
135.000	1.2910							-.0380		-.0150		.0400		.0350	
150.000	1.2910		.4530	.0030	-.3310	-.4010	-.3300	-.0540	.0690	.1690	-.1280	.0830	.0800	-.0070	-.0090

AMES 11-7D7 IA9 32A + S3 + T9 EXTERNAL TANK (RBMT20)

MACH (1) = 1.098 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.2910			-.0350	-.3540	-.4180	-.0740	-.0500	.0480	.2680	-.1570		.0510		-.1110
180.000	1.2910	1.0880	.4030	-.0590	-.3620	-.4280	-.0430	-.0320	.0450	.2440	-.1470	-.0100	.0380	-.0550	-.1810
270.000	1.2910	1.1080													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0910	-.0120	.0190
30.000	-.0030	.0400	.0200
60.000	.0680	.0800	-.0110
90.000			-.2000
120.000	.1160	.2400	.0420
135.000	.1440	.2570	.0470
150.000	.1700	.2610	.0390
165.000		.1410	.0300
180.000	.1180		

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3090	1.3140	.7150	.2330	-.1420	-.2320	-.3360	-.2660	.2210	.2180	.0150	-.1660	-.0410	-.0010	.0720
30.000	1.3090		.6860	.2050	-.1720	-.2560	-.3560	-.2880	.2370	.2010	-.0780	-.0940	-.0510	.0110	.0080
60.000	1.3090		.6190	.1400	-.2140	-.2910	-.3930	-.2570	.3710	.1200	-.2900	-.0940	-.0420	.0290	.0290
90.000	1.3090	1.1920	.5440	.0720	-.2720	-.3530	-.4400	.0160	.5080	-.5680	-.3620	-.1210	.0290	.0230	-.0680
120.000	1.3090		.4660	.0080	-.3210	-.3910	-.4690	-.0260	.2280	-.1350	-.2720	.0000	.0740	.0060	-.1380
135.000	1.3090							-.0470		.0810		.1000		-.0150	
150.000	1.3090		.4270	-.0250	-.3490	-.4150	-.1640	-.0650	.0610	.2100	-.1310	.0830	.0580	-.0410	-.1380
165.000	1.3090			-.0420	-.3560	-.4200	-.0640	-.0430	.0560	.2350	-.0320		.0580		-.1370
180.000	1.3090	1.0870	.4180	-.0520	-.3580	-.4210	-.0320	-.0320	.0780	.2410	-.0360	.0710	.0690	-.0290	-.1230
270.000	1.3090	1.1970													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0180	-.0340	.0280
30.000	-.0180	-.0170	.0090
60.000	.0600	.0210	-.0310
90.000			-.1540
120.000	.0730	.1370	-.0780
135.000	.0940	.1190	-.0380
150.000	.1140	.0860	-.0400

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK (RBMT28)

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
165.000		-.1410	-.0720
180.000	.1360		

MACH (1) = 1.102 BETAT (4) = 4.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2980	1.2920	.6960	.2200	-.1480	-.2380	-.3420	-.2730	.2170	.1810	-.0110	-.1700	-.0810	-.0290	.0520
30.000	1.2980		.6110	.1370	-.2280	-.3000	-.4000	-.3330	.2120	.1920	-.0280	-.1790	-.1030	-.0350	-.0150
60.000	1.2980		.5160	.0500	-.2870	-.3600	-.4500	-.0110	.2020	.1750	-.2300	-.1120	-.0860	-.0080	.0090
90.000	1.2980	1.1070	.4450	-.0150	-.3400	-.4050	-.4840	-.0400	.5520	-.5580	-.3740	-.1170	-.0010	-.0200	-.1110
120.000	1.2980		.3950	-.0550	-.3640	-.4270	-.2180	-.0510	.1630	-.0590	-.2580	.0630	.0520	-.0380	-.1980
135.000	1.2980							-.0500		.1560		.0560		-.0690	
150.000	1.2980		.3900	-.0610	-.3680	-.4350	-.0800	-.0540	.0510	.1850	-.1140	.0070	.0260	-.0950	-.2080
165.000	1.2980			-.0600	-.3690	-.4350	-.0510	-.0400	.0740	.2150	-.0490		.0290		-.1990
180.000	1.2980	1.0860	.4130	-.0540	-.3650	-.4280	-.0370	-.0340	.0480	.2530	-.0450	-.0240	.0310	-.0680	-.1770
270.000	1.2980	1.2700													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0200	-.0260	.0170
30.000	-.0190	-.0270	-.0170
60.000	.0480	.0260	-.0570
90.000			-.1280
120.000	.0720	.0830	-.0590
135.000	.0880	.0590	-.0940
150.000	.0990	-.0190	-.1260
165.000		-.1440	-.1480
180.000	.1150		

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT20)

MACH (1) = 1.099 BETAT (5) = 8.280

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1058	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2510	1.2500	.6730	.2050	-.1570	-.2460	-.3490	-.2810	.1270	.0920	-.0650	-.1110	-.1140	-.0990	-.0390
30.000	1.2510		.5300	.0800	-.2770	-.3470	-.4420	-.3860	.1410	.1840	-.0650	-.2140	-.1900	-.1180	-.0790
60.000	1.2510		.4040	-.0760	-.3520	-.4250	-.4030	-.0750	.1060	.1760	-.1140	-.1740	-.1330	-.0580	-.0290
90.000	1.2510	.9840	.3450	-.0890	-.3930	-.4580	-.0940	-.0730	.4220	-.5300	-.3980	-.2510	-.0500	-.0740	-.1650
120.000	1.2510		.3050	-.1160	-.4010	-.4600	-.0920	-.0590	.0150	.0230	-.1260	-.0510	.0170	-.1040	-.2490
135.000	1.2510							-.0660		.0950		-.0320		-.1270	
150.000	1.2510		.3210	-.1300	-.4010	-.4580	-.0770	-.0570	.0230	.2070	-.2310	-.0800	-.0160	-.1650	-.2870
165.000	1.2510			-.0900	-.3970	-.4580	-.0740	-.0520	.0170	.1920	-.3880		-.0510		-.3340
180.000	1.2510	1.0340	.3750	-.0700	-.3840	-.4450	-.1040	-.0670	.0200	.3150	-.3520	-.2880	-.0100	-.1880	-.2780
270.000	1.2510	1.2990													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0470	.0130	-.0570
30.000	-.0490	-.0230	-.0590
60.000	.0640	.0290	-.0780
90.000			-.1400
120.000	.0910	.0410	-.1400
135.000	.1010	-.0230	-.1840
150.000	.1030	-.1930	-.1990
165.000		-.2390	-.1990
180.000	.0910		

MACH (2) = 1.248 BETAT (1) = -8.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3340	1.3430	.7310	.2770	-.0680	-.1480	-.2520	-.2140	-.1090	.1200	.0420	-.1030	-.0850	-.0800	-.0830
30.000	1.3340		.8360	.3840	.0030	-.0750	-.1870	-.1400	.1920	.1100	-.0990	-.0620	.0130	-.0080	-.0490
60.000	1.3340		.8670	.3950	.0300	-.0610	-.1630	-.1190	.4280	.1530	-.3060	-.0370	.0500	.0490	.0300
90.000	1.3340	1.3770	.8460	.3350	-.0190	-.1090	-.2070	-.1670	.5230	-.3270	-.3360	-.1200	.0160	.1030	.0580
120.000	1.3340		.8710	.2210	-.1170	-.1980	-.2810	-.2440	.1070	-.1970	-.2610	-.1380	-.0080	.1030	.0490
135.000	1.3340							-.2910		-.0980		-.1130		.0880	
150.000	1.3340		.9350	.1030	-.2110	-.2850	-.3600	-.3280	.0420	.1190	.1140	-.1170	.0050	.0490	.0130
165.000	1.3340			.0480	-.2490	-.3190	-.3870	-.3510	.0220	.2860	.0330		-.0280		.0440
180.000	1.3340	1.1090	.4380	.0090	-.2720	-.3420	-.4110	-.1930	.0050	.2970	.0050	-.1340	-.2070	-.2190	-.0850
270.000	1.3340	1.2680													

X/LT	.7449	.8528	.9290
PHI			

[illegible] 73 [illegible] + 79 EXTERNAL TANK

[illegible] BETA (1) = -8.330

[illegible] EXTERNAL TANK DEPENDENT VARIABLE CP

[illegible]	.4489	.8528	.9299

PHI

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]			-.3748
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		

[illegible] BETA (2) = -4.060

[illegible] EXTERNAL TANK DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	.0452	[illegible]	.1748	.1909	.2121	.2336	.2874	.3412	.3990	.4489	.5027	.5585	.8372

PHI

[illegible]	1.3748	1.3337	.7869	.2098	[illegible]	[illegible]	-.2329	-.1930	-.1310	.2450	.1110	-.0700	-.1030	-.0480	-.0180
[illegible]	1.3748		.7975	[illegible]	[illegible]	[illegible]	[illegible]	-.1840	.1300	.1730	.0440	-.0910	-.0980	-.0290	-.0930
[illegible]	1.3748		.7974	[illegible]	[illegible]	-.1250	-.2290	-.1780	.3485	.1550	[illegible]	[illegible]	.0230	.0110	-.0030
[illegible]	1.3748	1.3337	.7940	.2487	[illegible]	-.1720	-.2680	-.2300	.5780	-.3360	-.3870	-.1260	.0040	.0740	.0230
[illegible]	[illegible]		.6911	.1543	[illegible]	[illegible]	[illegible]	-.2220	.1030	-.1160	-.1690	-.1470	.0150	.0880	[illegible]
[illegible]	1.3748							-.3120		.0110		-.2060		.0840	
[illegible]	1.3748		.8114	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.2231	-.0200	-.1030	-.0220	.0580	[illegible]
[illegible]	1.3748			[illegible]	-.2493	-.3069	-.3750	-.3243	[illegible]	.2730	-.0450		-.0950		[illegible]
[illegible]	1.3748	1.1457	.4653	.0228	-.2511	[illegible]	[illegible]	[illegible]	[illegible]	.2490	-.0810	-.0900	-.2140	.1190	[illegible]
[illegible]	1.3748	1.1457													

[illegible]	.4489	.8528	.9299

PHI

[illegible]	[illegible]	[illegible]	.0120
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]			-.2284
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		

[illegible] 84 SEP 73 [illegible] PRESSURE DATA - 1494 [illegible]

[illegible] 11-707 (AS SEA + 55 + 73 EXTERNAL TANK [illegible]

[illegible]

SECTION [illegible]EXTERNAL TANK [illegible] DEPENDENT VARIABLE CP

X/LT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PHI														
.000	1.3960	1.3990	.7790	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.271	.1270	[illegible]	[illegible]	[illegible]
[illegible]	1.3990		.7830	.2810	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1.3990		.8790	.2160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1.3990	1.2750	.8720	.1470	.169	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1.3990		.5270	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1.3990							[illegible]		114		[illegible]		[illegible]
[illegible]	1.3990		.4890	.0360	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1.3990			.0420	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
180.000	1.3990	1.1810	.4770	.0330	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
270.000	1.3990	1.2750												
X/LT		.7449	.8328	.9290										
PHI														
.000		-.0200	.0260	.0110										
30.000		.0090	.0310	.0100										
60.000		.0060	.0380	.0080										
90.000				-.0080										
120.000		.0020	.1530	-.0040										
150.000		.0280	.1920	.0500										
190.000		.0690	.0930	.0490										
165.000			-.0450	.0020										
180.000		.0670												

MACH (2) = 1.245 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3810	1.3750	.7540	.2940	-.0570	-.1380	-.2380	-.1940	-.1300	.2400	.0990	-.0760	-.0890	-.0930	-.0140
30.000	1.3810		.6720	.2140	-.1220	-.1940	-.2910	-.2460	.0590	.2460	.0520	-.1290	-.1000	-.0870	-.0740
60.000	1.3810		.5760	.1270	-.1830	-.2590	-.3400	-.3040	.1160	.3000	-.1590	-.0290	-.0590	-.0870	-.0920
90.000	1.3810	1.1830	.5020	.0590	-.2320	-.3060	-.3800	-.3360	.5370	-.3480	-.3950	-.1840	-.1310	-.0290	-.0950
120.000	1.3810		.4520	.0220	-.2570	-.3240	-.3900	-.3230	.0530	.0070	-.1630	-.0800	.0200	.0560	-.1010
135.000	1.3810							-.1360		.1770		-.1870		.0580	
150.000	1.3810		.4460	.0180	-.2630	-.3310	-.3920	-.0590	.0240	.1540	.0030	-.1870	-.0320	.0560	-.1170
165.000	1.3810			.0200	-.2620	-.3280	-.3920	-.0340	.0400	.2030	-.0240		-.1970		-.1220
180.000	1.3810	1.1580	.4690	.0250	-.2590	-.3230	-.3910	-.0460	.0270	.2370	-.0630	-.0830	-.2170	.1140	-.0980
270.000	1.3810	1.3450													
X/LT		.7449	.8328	.9290											
PHI															

MACH (2) = 1.245 BETAT (5) = 1.125

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0240	.0180	.0090
30.000	-.0510	.0090	-.0140
60.000	.0390	.0180	-.0330
90.000			-.0900
120.000	.0390	.0790	-.0190
135.000	.0620	.0790	.0150
150.000	.0860	-.0160	-.0100
165.000		-.2330	-.1220
180.000	-.0700		

MACH (2) = 1.245 BETAT (5) = 8.230

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3390	1.3340	.7320	.2730	-.0670	-.1480	-.2510	-.2150	-.0810	.1210	.0240	-.1080	-.0800	-.0850	-.0580
30.000	1.3390		.5910	.1490	-.1790	-.2450	-.3400	-.3050	.0830	.1970	.0240	-.1400	-.1190	-.1110	-.1140
60.000	1.3390		.4690	.0370	-.2540	-.3260	-.4010	-.3680	.0660	.3280	-.0860	-.0470	-.1080	-.1280	-.0530
90.000	1.3390	1.0650	.4040	-.0210	-.2930	-.3600	-.4230	-.0790	.5030	-.3470	-.2960	-.1640	-.2920	-.0630	-.1170
120.000	1.3390		.3680	-.0390	-.3000	-.3640	-.4210	-.0760	.0150	.0630	-.0830	-.0650	-.0630	.0160	-.1360
135.000	1.3390							-.0710		.1120		-.1310		.0170	
150.000	1.3390		.3830	-.0270	-.2990	-.3630	-.4210	-.0810	.0570	.2270	-.0930	-.2480	-.1480	.0000	-.1330
165.000	1.3390			-.0160	-.2900	-.3590	-.4180	-.1120	.0130	.2190	-.1820		-.3160		-.1910
180.000	1.3390	1.1200	.4350	.0110	-.2810	-.3470	-.4150	-.1230	.0020	.2850	-.1820	-.1570	-.2010	-.1970	-.0940
270.000	1.3390	1.3840													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0660	.0140	-.0020
30.000	[illegible]	-.0130	-.0340
60.000	.0990	-.0010	-.0340
90.000			-.1090
120.000	.0870	.0580	-.1090
135.000	.0670	.0120	-.1360
150.000	.0730	-.1380	-.1640
[illegible]		-.2260	-.1760
[illegible]	-.0250		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT29) (27 APR 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.9300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .900
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.098 BETAT (1) = -8.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0492	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2290	1.2790	.7220	.2540	-.1230	-.2120	-.3160	-.2480	.1370	.1140	-.0350	-.0670	-.0750	-.0830	-.0380
30.000	1.2290		.8280	.3410	-.0450	-.1360	-.2470	-.1670	.2290	.1110	-.1260	.0340	-.0080	.0040	-.0340
60.000	1.2290		.8280	.3480	-.0390	-.1280	-.2440	.1670	.4250	.0740	-.3080	.0510	.0220	.0580	.0640
90.000	1.2290	1.2730	.7280	.2520	-.1130	-.2110	-.3170	.2360	.4280	-.5540	-.3300	-.1650	-.0080	.0080	.0820
120.000	1.2290		.3640	.1060	-.2480	-.3240	-.4170	-.0520	.0450	-.3530	-.3440	-.1620	.0390	.1240	.0280
135.000	1.2290							-.0580		-.2350		-.1030		.0800	
150.000	1.2290		.4220	-.0160	-.3560	-.4230	-.3820	-.0680	-.0130	.0520	-.0420	-.0150	.0270	.0320	-.0280
165.000	1.2290			-.0710	-.3910	-.4560	-.0880	-.0820	.0120	.2040	-.1020		-.1080		-.0940
180.000	1.2290	.9760	.3340	-.1130	-.4060	-.4710	-.0720	-.0710	.0000	.1860	-.2020	-.1380	-.0330	-.1290	-.2300
270.000	1.2290	.9690													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0400	.0370	-.1400
30.000	.0290	.1340	.0280
60.000	.0930	.1780	.0280
90.000			-.1600
120.000	.1990	.3520	.1310
135.000	.2370	.3980	.1250
150.000	.2420	.4230	.0960
165.000		.4040	.1020
180.000	.0590		

MACH (1) = 1.098 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0492	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2870	1.3180	.7540	.2730	-.1080	-.1990	-.3030	-.2370	.2360	.2060	.0240	-.1090	-.0350	-.0360	.0360
30.000	1.2870		.7820	.2970	-.0930	-.1760	-.2880	-.2120	.2770	.1850	-.0570	-.0030	-.0260	.0050	.0080
60.000	1.2870		.7350	.2520	-.1200	-.2070	-.3140	-.2150	.4300	.1120	-.2680	.0080	-.0160	.0690	.0440
90.000	1.2870	1.2520	.6280	.1540	-.2060	-.2880	-.3870	.0810	.4350	-.5800	-.3380	-.2110	-.0050	.0750	.0040
120.000	1.2870		.4980	.0460	-.3000	-.3720	-.4570	-.0620	.0920	-.2720	-.3250	-.1220	.0630	.0780	-.0410
135.000	1.2870							-.0930		-.0690		-.0340		.0440	
150.000	1.2870		.4030	-.0390	-.3620	-.4330	-.1890	-.0760	.0310	.1240	-.0940	-.0110	.0820	.0080	-.0990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.2670			-.0760	-.3850	-.4430	-.0750	-.0630	.0330	.2170	-.0430		.0540		-.0810
180.000	1.2670	1.0090	.3540	-.0990	-.3910	-.4500	-.0610	-.0490	.0330	.2070	.0010	-.0440	.0390	-.0410	-.1340
270.000	1.2670	1.0850													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0140	.0110	.0180
30.000	.0070	.0390	.0260
60.000	.0890	.0990	-.0020
90.000			-.1720
120.000	.1240	.2700	.0570
135.000	.1370	.2800	.0340
150.000	.1720	.2810	.0140
165.000		.2090	.0350
180.000	.1090		

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2860	1.3290	.7640	.2820	-.1020	-.1920	-.2990	-.2320	.2410	.2280	.0410	-.1180	-.0110	-.0010	.0020
30.000	1.2860		.7270	.2440	-.1430	-.2240	-.3280	-.2600	.2580	.2170	-.0410	-.0910	-.0090	.0070	.0240
60.000	1.2860		.6320	.1540	-.2040	-.2890	-.3830	-.2920	.3800	.1570	-.2110	-.0540	-.0230	.0310	.0370
90.000	1.2860	1.1690	.5260	.0600	-.2820	-.3630	-.4520	-.0160	.4490	-.6030	-.3580	-.2580	.0191	.0270	-.0480
120.000	1.2860		.4310	-.0210	-.3470	-.4140	-.4920	-.0660	.1450	-.2040	-.3640	-.0720	.0730	.0191	-.0990
135.000	1.2860							-.0700		.0210		.0501		.0070	
150.000	1.2860		.3830	-.0640	-.3790	-.4390	-.1310	-.0870	.0240	.1810	-.0570	.0550	.0300	-.0100	-.0790
165.000	1.2860			-.0800	-.3850	-.4410	-.0780	-.0730	.0240	.2060	.0070		.0391		-.0870
180.000	1.2860	1.0290	.3690	-.0920	-.3850	-.4400	-.0600	-.0620	.0370	.2050	.0080	.0540	.0890	-.0010	-.0830
270.000	1.2860	1.1790													

X/LT	.7449	.8526	.9290
PHI			
.000	.0080	-.0100	.0180
30.000	.0080	-.0020	.0140
60.000	.0640	.0240	-.0300
90.000			-.1480
120.000	.0820	.1590	-.0260
135.000	.0820	.1480	-.0490
150.000	.1230	.1030	-.0500

AMES 11-7X7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT29)

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.0920	-.0810
180.000	.1480		

MACH (1) = 1.098 BETAT (4) = 4.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2720	1.3100	.7510	.2740	-.1090	-.1900	-.2980	-.2280	.2340	.2060	.0240	-.0940	-.0360	-.0330	.0350
30.000	1.2720		.6510	.1810	-.1910	-.2690	-.3700	-.3060	.2490	.2200	-.0290	-.1210	-.0730	-.0360	-.0180
60.000	1.2720		.5270	.0620	-.2780	-.3590	-.4430	-.0280	.2430	.1990	-.1260	-.0920	-.0370	-.0290	.0290
90.000	1.2720	1.0800	.4260	-.0300	-.3490	-.4230	-.4960	-.0730	.4970	-.5990	-.4190	-.1670	-.0080	-.0290	-.0910
120.000	1.2720		.3580	-.0840	-.3830	-.4510	-.2400	-.0810	.0920	-.1350	-.2810	.0230	.0360	-.0220	-.1330
135.000	1.2729							-.0850		.1060		.0350		-.0390	
150.000	1.2720		.3450	-.0970	-.3940	-.4520	-.1040	-.0870	.0200	.1570	-.0820	-.0130	.0390	-.0690	-.1930
165.000	1.2720			-.0980	-.3940	-.4480	-.0750	-.0650	.0270	.2040	-.0290		.0350		-.1930
180.000	1.2720	1.0190	.3610	-.0940	-.3910	-.4500	-.0540	-.0500	.0320	.2040	-.0210	-.0800	.0380	-.0420	-.1230
270.000	1.2720	1.2480													

X/LT	.7449	.8526	.9290
PHI			
.000	.0040	-.0020	.0220
30.000	.0030	-.0120	.0020
60.000	.0870	.0370	-.0470
90.000			-.1230
120.000	.0680	.0690	-.0810
135.000	.0870	.0710	-.1060
150.000	.0940	.0070	-.1350
165.000		-.1000	-.1360
180.000	.1100		

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2300	1.2680	.7260	.2560	-.1200	-.2080	-.3150	-.2420	.1270	.1140	-.0380	-.0580	-.0780	-.0650	-.0370
30.000	1.2300		.3840	.1040	-.2510	-.3260	-.4260	-.3690	.1570	.1810	-.0380	-.1580	-.1310	-.1260	-.0940
60.000	1.2300		.4180	-.0350	-.3540	-.4250	-.5100	-.0670	.1340	.2110	-.0760	-.1580	-.1050	-.0850	-.0260
90.000	1.2300	.9670	.3260	-.1130	-.4070	-.4730	-.1650	-.1130	.5130	-.5650	-.5560	-.2030	-.0990	-.1320	-.1840
120.000	1.2300		.2830	-.1360	-.4220	-.4800	-.1190	-.0840	-.0070	-.0610	-.2130	-.0610	.0090	-.0910	-.2150
135.000	1.2300							-.0830		.1090		-.0650		-.1190	
150.000	1.2300		.2860	-.1340	-.4220	-.4760	-.0990	-.0820	-.0030	.0960	-.1220	-.1170	-.0210	-.1370	-.1890
165.000	1.2300			-.1280	-.4180	-.4400	-.0870	-.0780	.0020	.1620	-.0920		-.0110		-.2640
180.000	1.2300	.9800	.3290	-.1120	-.4130	-.4340	-.0650	-.0700	.0160	.1760	-.1050	-.1870	.0070	-.1420	-.2150
270.000	1.2300	1.2810													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0200	.0240	-.0410
30.000	-.0150	-.0230	-.0660
60.000	.0880	.0300	-.0670
90.000			-.1400
120.000	.0910	.0360	-.1440
135.000	.1210	-.0230	-.1770
150.000	.1130	-.1900	-.1890
165.000		-.2450	-.1880
180.000	.0720		

MACH (2) = 1.247 BETAT (1) = -8.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3110	1.3570	.7760	.3190	-.0330	-.1150	-.2210	-.1730	-.0650	.1470	.0610	-.0610	-.0440	-.0430	-.0320
30.000	1.3110		.8820	.4140	.0390	-.0430	-.1550	-.1010	.2310	.1580	-.0620	-.0220	.0390	.0210	-.0320
60.000	1.3110		.8860	.4170	.0460	-.0430	-.1490	-.1010	.4710	.1930	-.2420	.0130	.0740	.0590	.0270
90.000	1.3110	1.3520	.7870	.3260	-.0300	-.1180	-.2130	-.1730	.5010	-.3530	-.3330	-.1690	-.0750	.0600	.0630
120.000	1.3110		.6240	.1840	-.1470	-.2240	-.3030	-.2700	.0370	-.2880	-.3720	-.1750	.0020	.1160	.0630
135.000	1.3110							-.3200		-.1710		-.1480		.0900	
150.000	1.3110		.4830	.0570	-.2460	-.3120	-.3860	-.3540	-.0130	-.0620	.0980	-.1230	.0240	.0490	.0640
165.000	1.3110			.0070	-.2800	-.3420	-.4120	-.2440	-.0100	.2130	.0390		-.0130		.0450
180.000	1.3110	1.0520	.3880	-.0280	-.2980	-.3610	-.4270	-.0710	-.0310	.2180	-.0210	-.1170	-.2050	-.2440	-.0650
270.000	1.3110	1.0470													

X/LT	.7449	.8528	.9290
PHI			

AMES 11-70? 1A9 OEA • S3 • T9 EXTERNAL TANK

MACH (2) = 1.247 BETAT (1) = -8.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0930	.0310	.0240
30.000	.0200	.0520	.0990
60.000	.1050	.0850	.0850
90.000			-.2780
120.000	.1710	.3670	.2180
135.000	.1710	.4120	.2140
150.000	.1970	.4390	.1930
165.000		.4410	.2080
180.000	.0800		

MACH (2) = 1.249 BETAT (2) = -4.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3510	1.3980	.8110	.3450	-.0080	-.0920	-.2000	-.1610	-.0980	.2690	.1380	-.0970	-.0910	-.0150	.0090
30.000	1.3510		.8410	.3690	.0100	-.0740	-.1830	-.1370	.1660	.2000	.0820	-.0460	.0180	.0000	-.0310
60.000	1.3510		.7920	.3310	-.0260	-.1120	-.2090	-.1690	.3800	.2240	-.2120	.0170	.0360	.0230	-.0040
90.000	1.3510	1.3130	.6890	.2350	-.1020	-.1880	-.2760	-.2410	.4870	-.3610	-.3550	-.2220	-.0580	.0380	.0450
120.000	1.3510		.5620	.1270	-.1880	-.2650	-.3400	-.3070	.0420	-.2130	-.2740	-.2040	.0080	.1010	.0180
135.000	1.3510							-.3350		-.0740		-.2090		.0780	
150.000	1.3510		.4670	.0450	-.2490	-.3190	-.3880	-.3480	.0470	.1530	.0250	-.1150	-.0450	.0980	-.0090
165.000	1.3510			.0120	-.2690	-.3350	-.3960	-.1990	.0250	.2180	-.0310		-.1320		-.0280
180.000	1.3510	1.0880	.4160	-.0070	-.2740	-.3420	-.4050	-.0530	.0100	.2000	-.0300	-.0720	-.2220	.1410	-.0640
270.000	1.3510	1.1610													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0440	.0310	.0260
30.000	.0070	.0810	.0510
60.000	.0880	.0850	.0490
90.000			-.2150
120.000	.0890	.2990	.1040
135.000	.0890	.3130	.1410
150.000	.1190	.3030	.1400
165.000		.1740	.1410
180.000	.1120		

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3680	1.4090	.6190	.3510	-.0080	-.0920	-.1960	-.1550	-.0940	.3000	.1990	-.0270	-.0910	-.0970	.0190
30.000	1.3680		.7830	.3220	-.0410	-.1180	-.2230	-.1760	.0000	.2530	.1080	-.0370	-.0980	-.0190	-.0490
60.000	1.3680		.6900	.2330	-.1030	-.1850	-.2750	-.2360	.2490	.2780	-.1530	.0490	-.0120	-.0090	-.0130
90.000	1.3680	1.2470	.3890	.1360	-.1770	-.2570	-.3370	-.2990	.4020	-.3740	-.3960	-.3490	-.0970	.0440	-.0140
120.000	1.3680		.4910	.0610	-.2360	-.3070	-.3760	-.3560	.0060	-.1490	-.2900	-.1440	.0490	.0890	-.0110
135.000	1.3680							-.2540		.0410		-.1910		.0890	
150.000	1.3680		.4430	.0210	-.2650	-.3320	-.3940	-.3650	-.0030	.1390	-.0040	-.1520	-.0910	.0390	-.0120
165.000	1.3680			.0060	-.2730	-.3330	-.3650	-.3430	.0090	.1580	.0810		-.1190		-.0180
180.000	1.3680	1.1070	.4280	-.0020	-.2740	-.3390	-.3570	-.3440	.0070	.1660	.0850	-.0510	-.1640	.1320	-.0240
270.000	1.3680	1.2580													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0250	.0330	.0330
30.000	-.0240	.0420	.0330
60.000	.0890	.0470	.0010
90.000			-.0750
120.000	.0580	.1920	.0600
135.000	.0750	.1670	.0540
150.000	.0960	.1090	.0530
165.000		-.0450	.0330
180.000	.1270		

MACH (2) = 1.249 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.3027	.3565	.6372
PHI															
.000	1.3590	1.3910	.8030	.3490	-.0160	-.0970	-.2030	-.1590	-.1000	.2650	.1290	-.0420	-.0440	-.0200	-.0010
30.000	1.3590		.7030	.2490	-.0870	-.1650	-.2640	-.2240	-.0130	.2650	.0960	-.0860	-.0590	-.0480	-.0910
60.000	1.3590		.5840	.1410	-.1750	-.2470	-.3330	-.3010	.1440	.3490	-.0860	-.0150	-.0570	-.0470	-.0360
90.000	1.3590	1.1390	.4870	.0500	-.2380	-.3110	-.3850	-.3330	.5030	-.3670	-.4310	-.3600	-.0980	-.0220	-.0310
120.000	1.3590		.4200	-.0010	-.2700	-.3410	-.4030	-.2800	.0190	-.0790	-.2320	-.0840	.0210	.0650	-.0770
135.000	1.3590							-.1060		.1250		-.1670		.0650	
150.000	1.3590		.4040	-.0100	-.2830	-.3460	-.4020	-.0730	-.0070	.1330	.0170	-.1790	-.0630	.0830	-.0920
165.000	1.3590			-.0130	-.2830	-.3460	-.3800	-.0550	.0030	.1840	.0440		-.2280		-.0910
180.000	1.3590	1.1020	.4220	-.0070	-.2790	-.3450	-.4040	-.0610	.0070	.1750	.0410	-.0720	-.2240	.1350	-.0670
270.000	1.3590	1.3270													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-FOOT IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT29)

MACH (2) = 1.249 BETAT (4) = 4.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0400	.0200	.0250
30.000	-.0400	.0130	.0020
60.000	.0750	.0240	-.0270
90.000			-.0790
120.000	.0460	.0960	-.0670
135.000	.0740	.0970	-.0140
150.000	.1130	.0540	-.0620
165.000		-.2390	-.1120
180.000	.1180		

MACH (2) = 1.246 BETAT (5) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3150	1.3490	.7780	.3210	-.0230	-.1080	-.2160	-.1780	-.0700	.1250	.0510	-.0840	-.0450	-.0480	-.0320
30.000	1.3150		.6230	.1860	-.1470	-.2170	-.3190	-.2840	.0580	.2130	.0530	-.1040	-.0900	-.0930	-.1290
60.000	1.3150		.4710	.0520	-.2430	-.3210	-.3990	-.3670	.1360	.2890	-.0160	-.0410	-.1040	-.0920	-.0480
90.000	1.3150	1.0420	.3870	-.0280	-.2960	-.3690	-.4330	-.0940	.4790	-.3700	-.4090	-.3260	-.2070	-.0830	-.0800
120.000	1.3150		.3430	-.0550	-.3090	-.3750	-.4300	-.0820	-.0250	-.0290	-.1440	-.0690	-.0110	.0170	-.0980
135.000	1.3150							-.0800		.1010		-.1300		.0090	
150.000	1.3150		.3490	-.0480	-.3080	-.3750	-.4220	-.0910	.0050	.1400	-.0290	-.2110	-.1310	-.0080	-.0980
165.000	1.3150			-.0430	-.3060	-.3740	-.3760	-.0780	-.0350	.1610	-.1430		-.3030		-.1390
180.000	1.3150	1.0390	.3890	-.0230	-.3010	-.3670	-.3880	-.0770	-.0310	.1920	-.1410	-.1090	-.2110	-.1960	-.0980
270.000	1.3150	1.3640													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0820	.0370	.0270
30.000	-.0880	.0080	-.0210
60.000	.0880	.0100	-.0390
90.000			-.0840
120.000	.0810	.0330	-.0830
135.000	.0910	.0130	-.1330
150.000	.1170	-.1480	-.1570
165.000		-.2190	-.1570
180.000	.0880		

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2410	.9950	.3420	-.0870	-.3910	-.4560	-.2240	-.1010	.0080	.0390	-.1970	-.3040	-.1100	-.0470	-.0280
30.000	1.2410		.4270	-.0280	-.3430	-.4100	-.5010	-.1460	-.0320	-.1800	-.4680	-.1570	-.1230	-.1200	-.1110
60.000	1.2410		.5740	.1130	-.2320	-.3140	-.4140	.0180	.0320	-.3720	-.5690	-.2020	-.1070	-.1240	-.0400
90.000	1.2410	1.2820	.7270	.2550	-.1110	-.2100	-.3150	.3100	.4600	-.5360	-.3690	-.4100	-.0820	-.1220	-.1000
120.000	1.2410		.8200	.3450	-.0400	-.1320	-.2350	.2920	.5070	.1840	.2320	.1770	.1250	.0100	-.1810
135.000	1.2410							.2250		.3100		.1840		.0900	
150.000	1.2410		.8210	.3430	-.0430	-.1320	-.2340	-.0680	.4300	.4040	.1700	.1440	.1020	-.0780	-.2070
165.000	1.2410			.3050	-.0750	-.1630	-.2660	-.1550	.4280	.4870	.0390		.0140		-.2900
180.000	1.2410	1.2730	.7190	.2420	-.1240	-.2030	-.3140	-.2370	.4210	.4780	-.2420	.1420	-.0840	-.2330	-.4440
270.000	1.2410	.9780													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0780	.0050	-.0930
30.000	-.0770	-.0270	-.0640
60.000	-.0280	-.0400	-.1250
90.000			-.2540
120.000	.1480	.1700	-.1240
135.000	.1550	.2210	-.1180
150.000	.1580	.2660	-.1110
165.000		.2170	-.0900
180.000	.0380		

MACH (1) = 1.102 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2780	1.0240	.3610	-.0830	-.3800	-.4420	-.4800	-.0910	.0310	.0750	-.1270	-.3210	-.0710	-.0090	-.0190
30.000	1.2780		.4070	-.0480	-.3540	-.4230	-.5110	-.1380	.0300	-.0710	-.3640	-.1620	-.1010	-.0940	-.0920
60.000	1.2780		.5070	.0430	-.2890	-.3730	-.4560	-.0480	.0580	-.3510	-.5610	-.2410	-.1120	-.0710	-.0780
90.000	1.2780	1.2420	.6280	.1940	-.2000	-.2860	-.3860	.1250	.4600	-.5670	-.3990	-.4270	-.1990	-.1940	-.1090
120.000	1.2780		.7310	.2560	-.1160	-.2090	-.3080	.1390	.5240	.2160	.1430	.1550	.0500	-.0480	-.2930
135.000	1.2780							-.1090		.3300		.1760		-.0520	
150.000	1.2780		.7840	.3020	-.0840	-.1700	-.2730	-.1830	.4720	.4050	-.0510	.1830	.0430	-.1010	-.2800

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT3D)

MACH (1) = 1.152 BETAT (2) = -4.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.2780			.2920	-.0850	-.1810	-.2770	-.2220	.4770	.4840	-.1130		.0120		-.3080
180.000	1.2780	1.3150	.7490	.2650	-.1080	-.1950	-.3010	-.2370	.4770	.5080	-.2190	.1420	-.0040	-.1810	-.3520
270.000	1.2790	1.0860													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0690	.0340	-.1050
30.000	-.0680	-.0090	-.1030
60.000	-.0480	-.0100	-.0970
90.000			-.1600
120.000	.1240	.0930	-.1600
135.000	.1540	.1130	-.2250
150.000	.1700	.1190	-.2160
165.000		-.0330	-.1960
180.000	.1220		

MACH (1) = 1.102 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2900	1.0340	.3650	-.0810	-.3800	-.4440	-.4020	-.0970	.0560	.1070	-.0940	-.3420	-.0300	.0180	-.0100
30.000	1.2900		.3790	-.0780	-.3850	-.4400	-.5150	-.0870	.0170	.0310	-.2920	-.1880	-.0510	-.0060	-.0900
60.000	1.2900		.4350	-.0230	-.3450	-.4180	-.4960	-.1010	.1160	-.2940	-.4460	-.2150	-.0930	-.1850	-.0830
90.000	1.2900	1.1780	.5260	.0520	-.2840	-.3630	-.4540	.0200	.4530	-.5600	-.4860	-.4320	-.0970	-.1190	-.1200
120.000	1.2900		.6240	.1340	-.2070	-.2860	-.3750	.1290	.5280	.2400	.0070	.2150	.0190	-.1260	-.2970
135.000	1.2900							.1130		.3240		.1270		-.1410	
150.000	1.2900		.7220	.2450	-.1300	-.2220	-.3180	-.0220	.4680	.3770	-.1910	.1420	.0010	-.1750	-.3230
165.000	1.2900			.2640	-.1150	-.2030	-.3090	-.1220	.4790	.4590	-.2930		.0070		-.3190
180.000	1.2900	1.3290	.7600	.2670	-.1100	-.1920	-.3000	-.1590	.4950	.5140	-.2900	.1650	.0160	-.1850	-.3190
270.000	1.2900	1.1720													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0920	.0290	-.0820
30.000	-.0920	.0150	-.0860
60.000	-.0460	.0170	-.0370
90.000			-.1780
120.000	.0770	.0170	-.2240
135.000	.1000	.0040	-.2860
150.000	.1140	-.0240	-.2490

MACH (1) = 1.102 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1660	-.2720
180.000	.1320		

MACH (1) = 1.100 BETAT (4) = 4.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4469	.5027	.5585	.6372
PHI															
.000	1.2720	1.0140	.3560	-.0850	-.3890	-.4460	-.4740	-.1000	.0130	.0680	-.1330	-.3130	-.0800	-.0060	-.0110
30.000	1.2720		.3390	-.1080	-.4010	-.4540	-.2830	-.0960	-.0100	-.0190	-.2210	-.2750	-.0680	-.0120	-.1030
60.000	1.2720		.3610	-.0970	-.3850	-.4490	-.1350	-.1070	.0100	-.2340	-.3050	-.2590	-.0850	-.0940	-.1300
90.000	1.2720	1.0790	.4220	-.0370	-.3510	-.4230	-.0550	-.0600	.5580	-.5450	-.4940	-.4240	-.1410	-.1580	-.1320
120.000	1.2720		.5150	.0560	-.2800	-.3540	-.4440	.0250	.5250	.2680	-.0760	.0930	-.0270	-.1850	-.3400
135.000	1.2720							.0020		.3170		.0840		-.2230	
150.000	1.2720		.6440	.1770	-.1850	-.2730	-.3670	-.2040	.4320	.3320	-.2700	.0920	-.0590	-.2800	-.3990
165.000	1.2720			.2250	-.1480	-.2300	-.3290	-.2710	.4520	.4120	-.3670		-.0400		-.3920
180.000	1.2720	1.3120	.7500	.2640	-.1090	-.1980	-.3020	-.2420	.4740	.5050	-.3660	.1480	-.0040	-.1840	-.3600
270.000	1.2720	1.2360													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0820	.0030	-.1090
30.000	-.0840	.0070	-.0990
60.000	-.0490	-.0050	-.1000
90.000			-.2230
120.000	.0740	-.0790	-.2230
135.000	.0740	-.0730	-.2460
150.000	.0900	-.1020	-.2310
165.000		-.3400	-.2510
180.000	.1270		

AMES 11-70T IA9 CBA + S3 + T5 EXTERNAL TANK (RBMT90)

MACH (1) = 1.102 BETAT (5) = 8.310

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3951	.4489	.5027	.5565	.6372
PHI															
.000	1.2360	.9760	.3300	-.0990	-.3990	-.4830	-.1940	-.1070	.0100	.0360	-.1880	-.2670	-.0490	-.0360	-.0290
30.000	1.2360		.2910	-.1390	-.4190	-.4750	-.1330	-.0960	-.0190	-.1510	-.2140	-.2790	-.0110	-.0850	-.1160
60.000	1.2360		.2920	-.1370	-.4150	-.4720	-.1120	-.1090	-.0650	-.1940	-.2210	.2741	-.0190	-.0790	-.1490
90.000	1.2360	.9680	.3320	-.1160	-.4020	-.4550	-.0870	-.1420	.5970	-.3141	-.4850	.93	-.4720	-.1910	-.1690
120.000	1.2360		.4080	-.0310	-.3430	-.4140	-.5090	-.0770	.5270	.2751	-.1190	.191	-.0740	.2220	-.0910
135.000	1.2360							-.1710		.2750		.1.54		-.2830	
150.000	1.2360		.5560	.1060	-.2440	-.3290	-.4180	-.3520	.5720	.2480	-.3940	.1.11	-.1720	-.3450	-.3110
165.000	1.2360			.1750	-.1920	-.2770	-.3640	-.2930	.5820	.2330	-.4469		-.1140		-.2710
180.000	1.2360	1.2780	.7190	.2410	-.1520	-.2120	-.3130	-.1030	.6070	.4630	-.4360	.141	-.0830	-.2310	-.1440
270.000	1.2360	1.2740													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0290	-.0030	-.0990
30.000	-.0690	.0170	-.1080
60.000	-.0340	.0030	-.1150
90.000			-.2140
120.000	-.0120	-.1080	-.2680
135.000	-.0180	-.0790	-.2770
150.000	-.0310	-.2370	-.3090
165.000		-.3420	-.3740
180.000	.0220		

MACH (2) = 1.244 BETAT (3) = -8.15[illegible]

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3951	.4489	.5027	.5565	.6372
PHI															
.000	1.3180	1.0720	.3970	-.0820	-.2930	-.3550	-.0290	-.0360	-.0940	-.0340	-.1860	-.2780	-.0080	.0060	-.0180
30.000	1.3180		.4060	-.0810	-.2830	-.3450	-.0310	-.0170	-.0940	-.0340	-.1860	-.2780	-.0080	.0060	-.0180
60.000	1.3180		.6380	.1060	-.1870	-.2260	-.0190	.0010	-.0940	-.0340	-.1860	-.2780	-.0080	.0060	-.0180
90.000	1.3180	1.3800	.7480	.3280	-.0510	-.1180	-.0140	.0120	.5970	.2750	-.0860	-.2780	-.0080	.0060	-.0180
120.000	1.3180		.8860	.4150	.0460	-.0480	-.0140	.0120	.5970	.2750	-.0860	-.2780	-.0080	.0060	-.0180
135.000	1.3180							.0120		.2750		-.2780		.0060	
150.000	1.3180		.8790	.4150	.0460	-.0480	-.0140	.0120	.5970	.2750	-.0860	-.2780	-.0080	.0060	-.0180
165.000	1.3180			.3680	.0460	-.0480	-.0140	.0120	.5970	.2750	-.0860	-.2780	-.0080	.0060	-.0180
180.000	1.3180	1.3900	.7760	.3410	-.0410	-.1280	-.0140	.0120	.5970	.2750	-.0860	-.2780	-.0080	.0060	-.0180
270.000	1.3180	1.3280													

X/LT	.7449	.8528	.9290
PHI			

SECTION [illegible] EXTERNAL TANK DEPENDENT VARIABLE CP

X/L	.7449	.9478	.9899
PHI			
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		

MACH (2) = 1.245 BETAT (2) = -4.[illegible]

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L	.0000	.0209	.0482	.1098	.1744	.1915	.2121	.2334	.2874	.3412	.3990	.4489	.5027	.5585	.8372
PHI															
.000	1.3810	1.0999	.4130	-.0010	-.2760	-.3351	-.4130	-.3820	.0110	.0480	-.1237	-.2490	-.1990	-.0830	.0210
9[illegible].000	1.3810		.4720	.0330	-.2540	-.3110	-.3930	-.3530	-.0890	-.0710	-.2280	-.3240	-.1010	-.1090	-.0690
8[illegible].000	1.3810		.5660	.1190	-.1920	-.2670	-.3480	-.2970	.2290	-.1280	-.3610	-.3390	-.0830	-.0810	-.0330
9[illegible].000	1.3810	1.3220	.6900	.2330	-.1050	-.1950	-.2490	-.2410	.4160	-.1660	-.3610	.3160	-.2640	-.2[illegible]	-.0480
1[illegible].000	1.3810		.7900	.3250	-.0290	-.1170	.3110	-.1770	.5280	.3250	.0130	.1790	.2110	.1400	-.1350
1[illegible].000	1.3810							-.1550		.4730		.3840		.1490	
1[illegible].000	1.3810		.8490	.3740	.1910	-.0140	-.1330	-.1440	.5550	.4150	.2620	.3110	.2140	.1220	-.1180
1[illegible].000	[illegible]			.3650	-.0120	-.0[illegible]	-.1020	-.1180	.5530	.4960	.0[illegible]		.1370		-.1190
1[illegible].000	1.3810	1.3390	.8090	.3540	-.0[illegible]	-.1[illegible]	-.1[illegible]	-.1[illegible]	.5280	.4[illegible]	-.[illegible]	-.[illegible]	.1[illegible]	-.[illegible]	-.1210
2[illegible].000	1.3810	1.3640													

X/L	.7449	.9478	.9899
PHI			
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		

[illegible] PRESSURE DATA - TABLE

[illegible] EXTERNAL TANK

[illegible]

[illegible]

[illegible]															
[illegible]															
[illegible]															
[illegible]															

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0610	-.0300	-.0390
30.000	-.0800	-.0360	-.0600
60.000	-.0420	-.0220	-.0600
90.000			-.1390
120.000	-.1040	-.0430	-.1860
135.000	-.1030	-.0730	-.2300
150.000	-.1360	-.0900	-.2140
165.000		-.1650	-.2130
180.000	-.2980		

MACH (2) = 1.247 BETAT (5) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3200	1.0520	.3880	-.0280	-.2970	-.3530	-.4290	-.3880	-.0280	.0070	-.1140	-.2700	-.1510	-.0780	-.0170
30.000	1.3200		.3470	-.0590	-.3150	-.3660	-.4290	-.2480	-.0330	-.0010	-.1120	-.2350	-.2090	-.0730	-.0470
60.000	1.3200		.3480	-.0620	-.3140	-.3730	-.3770	-.1370	-.0820	-.1530	-.2150	-.2340	-.1400	-.0820	-.0290
90.000	1.3200	1.0450	.3840	-.0340	-.3010	-.3680	-.1030	-.0920	.2050	-.3180	-.3100	-.4460	-.2860	-.3980	-.0940
120.000	1.3200		.4670	.0410	-.2520	-.3240	-.3560	-.0210	.1080	.3490	.0610	.0220	.0950	-.0860	-.2800
135.000	1.3200							-.1210		.3750		.0690		-.1280	
150.000	1.3200		.6150	.1750	-.1540	-.2360	-.3160	-.2820	.2020	.3250	-.1990	.0280	0380	-.1740	-.3840
165.000	1.3200			.2430	-.1020	-.1810	-.2660	-.2340	.2610	.4190	-.2950		.0910		-.4140
180.000	1.3200	1.3570	.7760	.3100	-.0460	-.1280	-.2150	-.1750	.3050	.5660	-.2930	-.2350	.1510	-.0720	-.3090
210.000	1.3200	1.3530													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0540	-.0410	-.0500
30.000	-.0440	-.0300	-.0690
60.000	-.0350	-.0170	-.0690
90.000			-.1340
120.000	-.0570	-.0470	-.2370
135.000	-.0970	-.0330	-.2410
150.000	-.1370	-.1390	-.2640
165.000		-.2930	-.2640
180.000	-.3830		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-737 IA9 OEA • S3 • T9 EXTERNAL TANK

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 29.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2640	1.0560	.3920	-.0530	-.3650	-.4370	-.3130	-.0890	.0090	.0120	-.1990	-.3330	-.0960	-.0350	-.0180
30.000	1.2640		.4820	.0180	-.3100	-.3810	-.4710	-.3050	.0180	-.1500	-.4470	-.1510	-.0960	-.0950	-.1090
60.000	1.2640		.6200	.1470	-.2090	-.2850	-.3880	.0290	.0930	-.2990	-.5270	-.1420	-.0330	-.0730	-.0560
90.000	1.2640	1.3030	.7420	.2610	-.1130	-.2000	-.2790	.3560	.4870	-.3430	-.3950	-.4230	-.0660	-.1490	-.0850
120.000	1.2640		.8000	.3210	-.0620	-.1490	-.2530	.2310	.4690	.1300	.2120	.1760	.1140	.0100	-.1920
135.000	1.2640							.1200		.2660		.1800		.0000	
150.000	1.2640		.7770	.2990	-.0850	-.1730	-.2710	-.1260	.3920	.3740	.0440	.1380	.0930	-.0780	-.21
165.000	1.2640			.2520	-.1260	-.2020	-.3040	-.2550	.3920	.4630	-.0710		.0080		-.3010
180.000	1.2640	1.2580	.6700	.1890	-.1700	-.2460	-.3480	-.3010	.4000	.4610	-.1740	.1180	-.0870	-.2460	-.4420
270.000	1.2640	1.0010													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0950	-.0170	-.1160
30.000	-.0680	-.0330	-.0770
60.000	-.0090	-.0060	-.0780
90.000			-.1650
120.000	.1620	.1910	-.0900
135.000	.1720	.2370	-.0500
150.000	.1780	.2830	-.0540
165.000		.2430	-.0790
180.000	.0010		

MACH (1) = 1.101 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2990	1.0840	.4110	-.0400	-.3530	-.4190	-.4980	-.1040	.0380	.0830	-.1200	-.3490	-.0620	.0150	.0000
30.000	1.2990		.4810	-.0070	-.3280	-.3950	-.4790	-.4040	.0700	-.0290	-.3200	-.1870	-.0880	-.0360	-.0790
60.000	1.2990		.5470	.0780	-.2640	-.3380	-.4340	-.0940	.1160	-.2560	-.5470	-.1130	-.0480	-.0530	-.0710
90.000	1.2990	1.2840	.6430	.1650	-.1970	-.2760	-.3770	.1310	.4900	-.5460	-.3290	-.4250	-.0990	-.1390	-.0970
120.000	1.2990		.7140	.2340	-.1380	-.2180	-.3180	.1230	.5000	.1800	-.0180	.1610	.0570	-.0500	-.2540
135.000	1.2990							-.2060		.3000		.1840		-.0300	
150.000	1.2990		.7400	.2590	-.1280	-.2000	-.3040	-.2510	.4430	.3880	-.0970	.1970	.0930	-.0980	-.2550

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.2990			.2410	-.1310	-.2110	-.3110	-.2570	.4440	.4750	-.1310		.0200		-.3010
180.000	1.2990	1.2990	.7020	.2110	-.1540	-.2310	-.3340	-.2790	.4350	.4730	-.2600	.1590	.0010	-.1790	-.3470
270.000	1.2990	1.1100													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0800	-.0010	-.1040
30.000	-.0810	-.0140	-.1010
60.000	-.0480	-.0010	-.0770
90.000			-.1420
120.000	.1340	.1100	-.1420
135.000	.1550	.1290	-.1860
150.000	.1750	.1290	-.1800
165.000		-.0280	-.1320
180.000	.1300		

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3070	1.0840	.4120	-.0400	-.3540	-.4180	-.4970	-.1480	.0570	.1110	-.0670	-.3480	-.0250	.0400	.0100
30.000	1.3070		.4240	-.0410	-.3530	-.4160	-.4980	-.2250	.0290	.0550	-.2600	-.1840	-.0460	.0170	-.0710
60.000	1.3070		.4690	.2030	-.3200	-.3930	-.4760	-.0860	.1240	-.2070	-.4950	-.1010	-.0700	-.0470	-.0580
90.000	1.3070	1.1910	.5380	.0660	-.2750	-.3510	-.4430	.0180	.5120	-.5440	-.4970	-.4310	-.2140	-.1880	-.1070
120.000	1.3070		.6130	.1400	-.2180	-.2960	-.3870	-.1090	.5030	.2140	-.0650	.1300	.0190	-.1220	-.2750
135.000	1.3070							-.1080		.3190		.1450		-.1320	
150.000	1.3070		.6850	.2090	-.1670	-.2460	-.3440	-.2700	.4080	.3760	-.2050	.1620	.0170	-.1650	-.3110
165.000	1.3070			.2200	-.1530	-.2360	-.3310	-.2780	.4250	.4570	-.2860		.0210		-.3120
180.000	1.3070	1.3090	.7120	.2190	-.1510	-.2300	-.3310	-.2740	.4350	.5130	-.2840	.1810	.0300	-.1650	-.3110
270.000	1.3070	1.1920													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0810	-.0050	-.0750
30.000	-.0850	-.0070	-.0750
60.000	-.0550	-.0210	-.0980
90.000			-.1720
120.000	.1190	.0270	-.2020
135.000	.1280	.0230	-.2420
150.000	.1420	-.0030	-.2310

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT31)

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8326	.9290
PHI			
165.000		-.1560	-.2380
180.000	.1580		

MACH (1) = 1.098 BETAT (4) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2960	1.0730	.4090	-.0400	-.3570	-.4200	-.5010	-.1030	.0280	.0720	-.1250	-.3180	-.0730	.0090	.0020
30.000	1.2960		.3850	-.0710	-.3750	-.4300	-.5030	-.0750	-.0020	.0180	-.1870	-.2390	-.0760	.0020	-.0810
60.000	1.2960		.3990	-.0630	-.3610	-.4320	-.1840	-.0950	.0150	-.1480	-.3590	-.1490	-.0730	-.0550	-.0800
90.000	1.2960	1.1010	.4410	-.0240	-.3380	-.4110	-.0510	-.0590	.4490	-.5250	-.5050	-.3580	-.3110	-.1830	-.1330
120.000	1.2960		.5100	.0500	-.2840	-.3620	-.0380	.0120	.3330	.2370	-.0890	.0760	-.0220	-.1830	-.3190
135.000	1.2960							-.0040		.3100		.0710		-.2220	
150.000	1.2960		.6110	.1440	-.2110	-.3000	-.3850	-.1510	.3630	.3280	-.2560	.0940	-.0470	-.2540	-.3820
165.000	1.2960			.1830	-.1860	-.2650	-.3570	-.3090	.4010	.4080	-.3580		-.0340		-.3990
180.000	1.2960	1.3010	.7050	.2140	-.1520	-.2350	-.3340	-.2800	.4310	.4970	-.3570	.1680	.0050	-.1790	-.3480
270.000	1.2960	1.2620													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0870	.0030	-.1050
30.000	-.0570	.0170	-.0830
60.000	-.0420	-.0110	-.1080
90.000			-.2140
120.000	.0990	-.0580	-.2140
135.000	.0990	-.0520	-.2140
150.000	.1040	-.0760	-.2090
165.000		-.3330	-.2240
180.000	.1340		

MACH (1) = 1.097 BETAT (5) = 8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2610	1.0350	.3800	-.0600	-.3670	-.4350	-.5090	-.0970	.0050	.0140	-.1950	-.2860	-.1050	-.0480	-.0270
30.000	1.2610		.3500	-.1070	-.4000	-.4580	-.1530	-.0860	-.0090	-.0600	-.2070	-.3170	-.1060	-.0330	-.0660
60.000	1.2610		.3220	-.1150	-.3990	-.4140	-.1030	-.0870	-.1000	-.1490	-.2230	-.2120	-.0990	-.0480	-.0870
90.000	1.2610	.9920	.3520	-.0930	-.3900	-.3400	-.0550	-.1050	.4480	-.5000	-.5000	-.2010	-.5030	-.2200	-.1650
120.000	1.2610		.4080	-.0350	-.3470	-.4200	-.1310	-.0720	.3910	.2650	-.1300	.0430	-.0500	-.2400	-.3880
135.000	1.2610							-.0870		.2730		.0170		-.2690	
150.000	1.2610		.3520	.0760	-.2630	-.3480	-.4380	-.3870	.3430	.2480	-.3470	.0500	-.1260	-.3480	-.5200
165.000	1.2610			.1330	-.2210	-.3040	-.3910	-.3460	.3620	.3250	-.4400		-.1270		-.5740
180.000	1.2610	1.2890	.6750	.1970	-.1630	-.2520	-.3520	-.2950	.3830	.4540	-.3870	.0920	-.0800	-.2660	-.4490
270.000	1.2610	1.3030													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0950	-.0130	-.1150
30.000	-.0590	.0160	-.1140
60.000	-.0430	.0040	-.1160
90.000			-.2050
120.000	.0910	-.0820	-.2290
135.000	-.0160	-.0680	-.2730
150.000	-.0220	-.2350	-.2910
165.000		-.3250	-.2890
180.000	.0100		

MACH (2) = 1.247 BETAT (1) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3430	1.1280	.4430	.0160	-.2680	-.3300	-.4080	-.3680	-.0030	.0560	-.0750	-.2650	-.1720	-.0990	-.0070
30.000	1.3430		.5380	.1000	-.2110	-.2770	-.3640	-.3270	-.0850	-.1450	-.3270	-.2510	-.0970	-.0990	-.1170
60.000	1.3430		.6730	.2160	-.1150	-.1940	-.2890	-.2170	.1210	-.1970	-.5930	-.2470	-.0740	-.0820	-.0220
90.000	1.3430	1.3790	.7980	.3260	-.0270	-.1100	-.2040	-.1170	.5390	-.3450	-.5850	-.2890	-.3170	-.0510	-.0460
120.000	1.3430		.8540	.3860	.0210	-.0640	-.1610	-.1230	.4560	.2260	-.0690	.1990	.2100	.1010	-.0750
135.000	1.3430							-.1290		.3560		.2010		.1180	
150.000	1.3430		.8320	.3650	-.0020	-.0850	-.1760	-.1440	.2960	.4680	.0810	.1220	.1870	.0920	-.0740
165.000	1.3430			.3200	-.0370	-.1160	-.2050	-.1720	.3140	.5500	.0600		.0280		-.1710
180.000	1.3430	1.3370	.7280	.2670	-.0780	-.1360	-.2480	-.2120	.2550	.5500	-.0940	-.2440	.1270	-.0580	-.2970
270.000	1.3430	1.0690													

X/LT	.7449	.8528	.9290
PHI			

DATE 24 SEP 93 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT31)

MACH (2) = 1.247 BETAT (1) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0480	-.0410	-.0410
30.000	-.0870	-.0400	-.0110
60.000	-.0280	-.0340	-.0130
90.000			-.2130
120.000	.0310	.2680	-.0250
135.000	-.0380	.3130	.0210
150.000	-.0970	.3470	.0150
165.000		.3120	.0710
180.000	-.3870		

MACH (2) = 1.248 BETAT (2) = -4.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3750	1.1560	.4680	.0330	-.2460	-.3120	-.3680	-.3430	.0190	.1070	-.0120	-.2900	-.2080	-.0590	.0290
30.000	1.3750		.5160	.0720	-.2210	-.2880	-.3750	-.3260	-.0530	.0000	-.2370	-.2630	-.0720	-.0920	-.0690
60.000	1.3750		.6040	.1480	-.1690	-.2430	-.3300	-.2800	.1290	-.1810	-.3480	-.1730	-.0280	-.0370	-.0900
90.000	1.3750	1.3360	.7010	.2390	-.1010	-.1830	-.2720	-.2340	.3390	-.3500	-.5000	-.3320	-.1240	-.2690	-.0900
120.000	1.3750		.7700	.3060	-.0460	-.1300	-.2230	-.1840	.3800	.2870	-.0650	.0860	.2090	.0860	-.1400
135.000	1.3750							-.1720		.4000		.1010		.0860	
150.000	1.3750		.7980	.3310	-.0320	-.1180	-.2070	-.1710	.3290	.4920	.0100	.0330	.2170	.0380	-.1400
165.000	1.3750			.3190	-.0410	-.1230	-.2100	-.1780	.3060	.5880	-.0380		.2150		-.1880
180.000	1.3750	1.3750	.7570	.2860	-.0620	-.1410	-.2350	-.1950	.2980	.6290	-.0410	-.1360	.1940	-.0340	-.2280
270.000	1.3750	1.1790													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0510	-.0330	-.0620
30.000	-.0520	-.0200	-.0420
60.000	-.0290	-.0130	-.0120
90.000			-.0690
120.000	-.0510	.1730	-.0710
135.000	-.1180	.2000	-.0720
150.000	-.1630	.2020	-.0760
165.000		.1090	-.0990
180.000	-.2930		

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3900	1.1600	.4760	.0410	-.2420	-.3020	-.3840	-.3330	.0090	.1150	.0150	-.2140	-.2340	-.0830	.0910
30.000	1.3900		.4860	.0480	-.2410	-.3000	-.3810	-.3370	.0020	.0620	-.1300	-.2900	-.1210	-.0830	-.0280
60.000	1.3900		.5320	.0870	-.2140	-.2860	-.3610	-.3220	.1290	-.1490	-.5570	-.1700	-.0190	-.0500	-.0840
90.000	1.3900	1.2690	.6010	.1500	-.1690	-.2500	-.3320	-.2830	.5470	-.3450	-.4050	-.4120	-.2210	-.3310	-.1180
120.000	1.3900		.6740	.2190	-.1130	-.1950	-.2780	-.2420	.4040	.3130	-.0490	.0370	.1640	.0010	-.1670
135.000	1.3900							-.2250		.4160		.0660		-.0090	
150.000	1.3900		.7400	.2840	-.0690	-.1520	-.2400	-.2040	.2860	.4440	-.0200	.0220	.1810	-.0300	-.1870
165.000	1.3900			.2930	-.0560	-.1390	-.2290	-.1920	.2860	.5290	-.0920		.1750		-.2020
180.000	1.3900	1.3880	.7670	.2940	-.0530	-.1350	-.2280	-.1880	.2990	.6170	-.0910	-.0420	.1940	-.0330	-.1720
270.000	1.3900	1.2690													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0270	-.0430	-.0350
30.000	-.0300	-.0300	-.0350
60.000	-.0670	-.0200	-.0450
90.000			-.0940
120.000	-.0910	.1000	-.0950
135.000	-.1600	.0990	-.1800
150.000	-.2000	.0880	-.1750
165.000		-.0030	-.2080
180.000	-.1950		

MACH (2) = 1.25 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4485	.5027	.5565	.6372
PHI															
.000	1.3830	1.1510	.4690	.0350	-.2510	-.3090	-.3900	-.3420	.0020	.1020	-.0130	-.2220	-.2110	-.0770	.0170
30.000	1.3830		.4450	.0140	-.2610	-.3160	-.3900	-.3440	.0150	.0460	-.0730	-.2710	-.1880	-.0870	-.0310
60.000	1.3830		.4560	.0160	-.2520	-.3170	-.3870	-.3390	.0770	-.0900	-.4910	-.1270	-.0810	-.0700	-.0460
90.000	1.3830	1.1840	.5010	.0570	-.2290	-.304	-.3740	-.3080	.4910	-.3290	-.3080	-.4570	-.2480	-.3620	-.1080
120.000	1.3830		.5700	.1290	-.1780	-.2570	-.3320	-.1280	.1370	.3460	.0400	-.0110	.1270	-.0360	-.2390
135.000	1.3830							-.2740		.3600		.0560		-.0690	
150.000	1.3830		.6740	.2210	-.1160	-.1970	-.2800	-.2420	.1850	.3720	-.0920	-.0030	.0990	-.0990	-.2610
165.000	1.3830			.2360	-.0860	-.1680	-.2510	-.2170	.2480	.5340	-.1860		.1490		-.2570
180.000	1.3830	1.3850	.7630	.2870	-.0610	-.1420	-.2330	-.1930	.2850	.6280	-.1840	-.1570	.2050	-.0290	-.2260
270.000	1.3830	1.3420													

X/LT	.7449	.8528	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-70? IA9 OPA + 33 + 79 EXTERNAL TANK (RBKT39)

MACH (2) = 1.231 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0450	-.0560	-.0630
30.000	-.0300	-.0420	-.0390
60.000	-.0300	-.0320	-.0690
90.000			-.1270
120.000	-.1090	-.0300	-.1280
135.000	-.1370	-.0490	-.2200
150.000	-.2180	-.0470	-.2110
165.000		-.1740	-.2230
180.000	-.2990		

MACH (2) = 1.250 BETAT (5) = 8.230

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3390	1.1080	.4370	.0150	-.2640	-.3250	-.4030	-.3660	-.0100	.0280	-.0930	-.2640	-.1630	-.0990	-.0190
30.000	1.3390		.3870	-.0240	-.2920	-.3450	-.4150	-.3570	-.0150	.0270	-.0910	-.2270	-.1900	-.0790	-.0200
60.000	1.3390		.3780	-.0360	-.2950	-.3550	-.4130	-.1100	-.0610	-.0530	-.2490	-.1270	-.1280	-.0810	-.0290
90.000	1.3390	1.0640	.4060	-.0170	-.2860	-.3550	-.1800	-.0710	.2480	-.3030	-.3180	-.4010	-.1670	-.3680	-.1200
120.000	1.3390		.4680	.0410	-.2490	-.3210	-.3690	-.0160	.0600	.2570	.0470	-.1380	.0880	-.0770	-.2810
135.000	1.3390							-.0400		.3390		-.0500		-.1140	
150.000	1.3390		.5890	.1510	-.1710	-.2510	-.3310	-.2940	.1620	.3260	-.1910	-.1100	.0560	-.1590	-.3820
165.000	1.3390			.2110	-.1250	-.2070	-.2870	-.2550	.2180	.4210	-.2820		.1140		-.4090
180.000	1.3390	1.3410	.7290	.2700	-.0780	-.1590	-.2460	-.2050	.1690	.5580	-.1910	-.2670	.1470	-.0500	-.2880
270.000	1.3390	1.3770													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0580	-.0540	-.0520
30.000	-.0240	-.0410	-.0630
60.000	-.0150	-.0210	-.0800
90.000			-.1350
120.000	-.0800	-.0410	-.2330
135.000	-.0940	-.0410	-.2320
150.000	-.1950	-.1480	-.2730
165.000		-.2950	-.2720
180.000	-.3840		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT32) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.100 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2790	1.1040	.4370	-.0120	-.3350	-.4080	-.4910	-.2280	.0290	.0280	-.1760	-.3330	-.1090	-.0610	-.0300
30.000	1.2790		.5340	.0710	-.2730	-.3470	-.4440	-.3540	.0490	-.1070	-.3710	-.1310	-.0880	-.0960	-.1100
60.000	1.2790		.6580	.1830	-.1790	-.2640	-.3630	.0220	.1460	-.2300	-.5120	-.1130	-.0070	-.0320	-.0800
90.000	1.2790	1.3175	.7530	.2670	-.1090	-.1980	-.2500	.3330	.5070	-.5340	-.3670	-.4330	-.2000	-.1850	-.1130
120.000	1.2790		.7780	.2980	-.0830	-.1690	-.2720	.1260	.4300	.0780	-.0810	.1790	.1160	.0120	-.1730
135.000	1.2790							-.0680		.2280		.1840		.0030	
150.000	1.2790		.7310	.2560	-.1240	-.2070	-.3030	-.2430	.3570	.3500	-.0710	.1380	.0970	-.0700	-.2170
165.000	1.2790			.2070	-.1690	-.2400	-.3370	-.2910	.3590	.4480	-.0950		.0160		-.3050
180.000	1.2790	1.2380	.6230	.1460	-.2040	-.2830	-.3790	-.3300	.3690	.4520	-.0940	-.0170	-.0720	-.2380	-.4440
270.000	1.2790	1.0130													

X/LT	.7449	.8526	.9290
PHI			
.000	-.1050	-.0370	-.1070
30.000	-.0840	-.0380	-.0970
60.000	-.0390	.0160	-.0410
90.000			-.1240
120.000	.1800	.2230	.0270
135.000	.1790	.2670	.0500
150.000	.2020	.3110	.0310
165.000		.2750	.0530
180.000	.0120		

MACH (1) = 1.090 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3150	1.1330	.4600	-.0010	-.3270	-.3960	-.4830	-.2380	.0670	.1030	-.1110	-.3460	-.0890	.0200	.0080
30.000	1.3150		.5080	.0340	-.2990	-.3680	-.4620	-.3900	.0900	.0090	-.2530	-.1580	-.0730	-.0200	-.0850
60.000	1.3150		.5930	.1070	-.2370	-.3210	-.4170	-.0970	.1920	-.1920	-.4950	-.0820	-.0120	-.0350	-.0520
90.000	1.3150	1.2780	.6530	.1725	-.1920	-.2770	-.3710	.1490	.5130	-.5435	-.3770	-.4400	-.2700	-.1890	-.1020
120.000	1.3150		.6910	.2140	-.1570	-.2420	-.3390	.0620	.4670	.1310	-.1980	.1590	.0870	-.0440	-.2170
135.000	1.3150							-.1460		.2730		.1800		-.0530	
150.000	1.3150		.6940	.2150	-.1620	-.2430	-.3390	-.2920	.3970	.3620	-.1510	.1970	.0850	-.0985	-.2390

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBMT32)

MACH (1) = 1.098 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3150			.1940	-.1700	-.2530	-.3500	-.3090	.4080	.4580	-.2040		.0290		-.2320
180.000	1.3150	1.2770	.6810	.1320	-.1350	-.2740	-.3720	-.3130	.3850	.4500	-.2350	.1730	.0070	-.1680	-.3380
270.000	1.3150	1.1280													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0910	-.0120	-.0840
30.000	-.0890	-.0170	-.0860
60.000	-.0560	-.0290	-.0960
90.000			-.1400
120.000	.1420	.1320	-.1390
135.000	.1610	.1510	-.1370
150.000	.1840	.1490	-.1350
165.000		-.0225	-.1230
180.000	.1350		

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3260	1.1390	.4840	.0040	-.3250	-.3930	-.4780	-.4010	.0730	.1230	-.0810	-.3290	-.0360	.0470	.0180
30.000	1.3260		.4720	.0040	-.3240	-.3910	-.4780	-.3910	.0670	.0900	-.2120	-.2100	-.0370	.0280	-.0660
60.000	1.3260		.3060	.0330	-.2970	-.3690	-.4590	-.3180	.2340	-.1500	-.4770	-.0410	-.0410	-.0270	-.0540
90.000	1.3260	1.2100	.5350	.0790	-.2650	-.3450	-.4330	.0440	.5440	-.5260	-.4850	-.4350	-.2420	-.2040	-.1130
120.000	1.3260		.6010	.1290	-.2260	-.3040	-.3950	.0770	.3620	.1920	-.1450	.1270	.0270	-.1120	-.2820
135.000	1.3260							.0780		.2980		.1310		-.1180	
150.000	1.3260		.6500	.1730	-.2000	-.2750	-.3690	.0300	.3070	.3580	-.2030	.1580	.0260	-.1530	-.2900
165.000	1.3260			.1770	-.1880	-.2740	-.3620	-.2510	.3240	.4480	-.2800		.0280		-.3050
180.000	1.3260	1.2920	.6680	.1730	-.1690	-.2680	-.3630	-.3090	.3510	.5060	-.2910	.1840	.0390	-.1530	-.3030
270.000	1.3260	1.2130													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0830	-.0140	-.0590
30.000	-.0670	-.0110	-.0540
60.000	-.0530	-.0330	-.1260
90.000			-.1670
120.000	.1220	.0370	-.1670
135.000	.1310	.0320	-.2010
150.000	.1440	.0000	-.1950

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 C$_2$ + S3 + T9 EXTERNAL TANK (RBNT32)

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8326	.9290
PHI			
165.000		-.1530	-.2160
180.000	.1800		

MACH (2) = 1.101 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3160	1.1250	.4540	-.0040	-.3240	-.3980	-.4770	-.2150	.0760	.0980	-.1170	-.3410	-.0800	.0170	.0020
30.000	1.3160		.4220	-.0360	-.3480	-.4160	-.4910	-.0610	.0350	.0410	-.1450	-.2580	-.0620	.0220	-.0720
60.000	1.3160		.4230	-.0350	-.3450	-.4090	-.3320	-.0650	.1040	-.0810	-.5150	-.0750	-.0720	-.0200	-.0810
90.000	1.3160	1.1180	.4560	-.0140	-.3300	-.4030	-.0750	-.0240	.5400	-.5160	-.5010	-.2350	-.4780	-.2250	-.1460
120.000	1.3160		.4990	.0410	-.2950	-.3660	-.0050	.0360	.2150	.2090	-.1120	.0560	-.0130	-.1730	-.3090
135.000	1.3160							.0350		.3010		.0580		-.2090	
150.000	1.3160		.5790	.1120	-.2380	-.3230	-.4050	.0160	.2960	.3210	-.2610	.0950	-.0380	-.2400	-.3620
165.000	1.3160			.1410	-.2160	-.2970	-.3680	-.0860	.3370	.4010	-.3600		-.0290		-.3910
180.000	1.3160	1.2820	.6590	.1700	-.1920	-.2700	-.3680	-.2850	.3820	.4860	-.3580	.1730	.0100	-.1740	-.3410
270.000	1.3160	1.2800													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0890	-.0120	-.0810
30.000	-.0560	.0020	-.0740
60.000	-.0370	-.0100	-.0740
90.000			-.1940
120.000	.1040	-.0320	-.1950
135.000	.1040	-.0450	-.2100
150.000	.1080	-.0760	-.2060
165.000		-.2730	-.2190
180.000	.1330		

AMES 11-7ft IA9 02A + S3 + T9 EXTERNAL TANK (RBMT32)

MACH (1) = 1.101 BETAT (5) = 8.260

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L*	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2750	1.0810	.4250	-.0190	-.3390	-.4140	-.4920	-.1450	.0180	.0030	-.1950	-.3250	-.1070	-.0840	-.0240
30.000	1.2750		.3640	-.0770	-.3030	-.4430	-.2790	-.0700	.0070	.0020	-.1930	-.2750	-.0840	-.0050	-.0440
60.000	1.2750		.3490	-.0960	-.3850	-.4470	-.0980	-.0740	-.0270	-.0920	-.1940	-.1590	-.1040	-.0550	-.0860
90.000	1.2750	1.2650	.2510	-.0900	-.3000	-.3225	-.0510	-.0620	.3120	-.4720	-.5170	-.2030	-.4340	-.2810	-.1560
120.000	1.2750		.3390	-.0430	-.3525	-.4020	-.0330	-.0370	.2170	.2780	-.1260	.0170	-.0570	-.2290	-.3840
135.000	1.2750							-.0590		.2710		.0200		-.2840	
150.000	1.2750		.4080	.0480	-.2920	-.3700	-.4560	-.0700	.2590	.2420	-.3490	.0540	-.1340	-.3460	-.3190
165.000	1.2750			.0930	-.2560	-.3330	-.4180	-.3400	.3270	.3100	-.4420		-.1220		-.3810
180.000	1.2750	1.2390	.6210	.1410	-.2030	-.2460	-.3850	-.3290	.3610	.4420	-.4410	-.0350	-.0550	-.2660	-.4540
270.000	1.2750	1.3150													

X/L*	.7449	.8526	.9290
PHI			
.000	-.1070	-.0340	-.1050
30.000	-.0930	.0060	-.1070
60.000	-.0450	-.0050	-.1070
90.000			-.1910
120.000	.0620	-.0800	-.2240
135.000	.0270	-.0500	-.2650
150.000	.0250	-.2230	-.2780
165.000		-.2050	-.2780
180.000	-.0180		

MACH (2) = 1.249 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L*	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3540	1.1780	.4940	.0370	-.2380	-.2990	-.3800	-.3450	-.0620	.0870	-.0490	-.2380	-.1810	-.1110	-.0270
30.000	1.3540		.5890	.1480	-.1720	-.2290	-.3310	-.2930	-.0450	-.0950	-.3060	-.3000	-.0870	-.0950	-.1110
60.000	1.3540		.7090	.2530	-.0680	-.1680	-.2590	-.2170	.1850	-.1180	-.5770	-.1630	-.0310	-.0060	-.0480
90.000	1.3540	1.3900	.8190	.3390	-.0190	-.1050	-.1970	-.1100	.5400	-.3310	-.6710	-.2910	-.3190	-.1720	-.0830
120.000	1.3540		.8320	.3670	.1540	-.0420	-.1760	-.1400	.4110	.1680	-.1510	.1810	.2150	.0900	-.0580
135.000	1.3540							-.1540		.3090		.1590		.1540	
150.000	1.3540		.7980	.3270	-.0550	-.1160	-.2070	-.1720	.2270	.4470	.0630	.0090	.1910	.1120	-.0830
165.000	1.3540			.2740	-.0790	-.1490	-.2340	-.2030	.2440	.5490	.0510		.0270		-.1650
180.000	1.3540	1.3120	.6620	.2260	-.1110	-.1880	-.2750	-.2420	.2380	.5970	.0330	-.2570	.1330	-.0280	-.2480
270.000	1.3540	1.2080													

X/L*	.7449	.8526	.9290
PHI			

[illegible] -8.195

[illegible] DEPENDENT VARIABLE CP

[illegible]

[illegible]

| | | |

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0400	-.0530	-.0510
30.000	-.0400	-.0420	-.0330
60.000	-.0310	-.0260	-.0520
90.000			-.1120
120.000	-.0660	-.0060	-.1140
135.000	-.0660	-.0130	-.1910
150.000	-.0910	-.0180	-.1990
165.000		-.1910	-.1910
180.000	-.2950		

MACH (2) = 1.246 BETAT (5) = 8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3520	1.1550	.4820	.0490	-.2430	-.3040	-.3870	-.3490	-.0190	.0580	-.0730	-.2480	-.1640	-.1050	-.0280
30.000	1.3520		.4190	-.0030	-.2830	-.3370	-.4130	-.3650	.0090	.0460	-.1480	-.2580	-.1880	-.0770	-.0230
60.000	1.3520		.3980	-.0230	-.2880	-.3510	-.4110	-.1190	-.0390	.0370	-.3660	-.0940	-.0980	-.0900	.0020
90.000	1.3520	1.0790	.4150	-.0160	-.2840	-.3500	-.3950	-.0670	.3400	-.3010	-.3640	-.4130	-.0990	-.2830	-.1050
120.000	1.3520		.4560	.0280	-.2610	-.3270	-.3910	-.0190	.0430	.2440	.0010	-.1550	.0830	-.0660	-.2800
135.000	1.3520							-.0150		.3410		-.1520		-.0930	
150.000	1.3520		.5530	.1160	-.1980	-.2760	-.3540	-...090	.1280	.3210	-.1920	-.2310	.0540	-.1450	-.3680
155.000	1.3520			.1660	-.1590	-.2390	-.3180	-.2850	.1720	.4140	-.2810		.1170		-.4080
180.000	1.3520	1.3160	.6760	.2200	-.1210	-.1960	-.2810	-.2390	.1970	.5420	-.2810	-.2760	.1530	-.0340	-.2870
270.000	1.3520	1.3980													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0470	-.0590	-.0610
30.000	-.0480	-.0410	-.0590
60.000	.0130	-.0280	-.0600
90.000			-.1340
120.000	.0090	-.0120	-.1550
135.000	-.0740	-.0160	-.2110
150.000	-.1670	-.1380	-.2520
165.000		-.2820	-.2640
180.000	-.3910		

$

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8400 INCHES YMRP = .0000 INCHES
BREF = 39.8400 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.102 BETAT (1) = -8.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2840	1.1480	.4660	.0320	-.3030	-.3770	-.4650	-.4060	.0720	.0350	-.1320	-.3240	-.1290	-.0710	-.0290
30.000	1.2840		.5850	.1080	-.2370	-.3120	-.4110	-.3370	.0840	-.0590	-.3360	-.0940	-.0670	-.0880	-.1060
60.000	1.2840		.6920	.2130	-.1530	-.2380	-.3410	.0410	.2130	-.1730	-.6110	-.0400	.0220	-.0170	-.0650
90.000	1.2840	1.3240	.7580	.2740	-.1060	-.1950	-.2970	.2820	.5200	-.5220	-.4270	-.3380	-.4120	-.2090	-.1260
120.000	1.2840		.7490	.2740	-.1090	-.1920	-.2940	.0120	.3780	.0200	-.2850	.1650	.2190	.0230	-.1570
135.000	1.2840							-.1890		.1860		.1895		.0040	
150.000	1.2840		.6830	.2110	-.1630	-.2440	-.3370	-.2870	.3160	.3230	-.1010	.1410	.1040	-.0870	-.1950
165.000	1.2840			.1610	-.2080	-.2790	-.3720	-.3270	.3220	.4320	-.1160		.0270		-.2770
180.000	1.2840	1.2080	.5770	.1010	-.2370	-.3200	-.4120	-.3610	.3130	.4450	-.2110	-.1560	-.0450	-.2280	-.4110
270.000	1.2840	1.0275													

X/LT	.7449	.8526	.9290
PHI			
.000	-.1000	-.0430	-.0610
30.000	-.0910	-.0260	-.0820
60.000	-.0250	.0140	-.0400
90.000			-.1230
120.000	.1900	.2480	.0400
135.000	.2020	.2900	.0650
150.000	.2070	.3300	.0470
165.000		.2970	.0480
180.000	.0340		

MACH (1) = 1.101 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3250	1.1820	.5100	.0440	-.2940	-.3670	-.4490	-.3870	.1150	.1220	-.0920	-.3190	-.0790	.0230	.0210
30.000	1.3250		.5580	.0810	-.2650	-.3350	-.4280	-.3630	.1260	.0480	-.2240	-.1330	-.0850	-.0010	-.0510
60.000	1.3250		.6170	.1380	-.2150	-.2920	-.3910	-.1170	.2590	-.1280	-.5970	-.0280	.0140	-.0110	-.0360
90.000	1.3250	1.2840	.6620	.1770	-.1840	-.2700	-.3680	.1040	.5320	-.5180	-.4130	-.2320	-.2530	- 1870	-.0890
120.000	1.3250		.6700	.1900	-.1760	-.2950	-.3510	-.0900	.4320	.0800	-.2800	.1630	.0910	-.0190	-.1930
135.000	1.3250							-.2480		.2430		.1810		-.0290	
150.000	1.3250		.6590	.1720	-.1980	-.2710	-.3640	-.3150	.3450	.3550	-.1670	.1730	.0890	-.0780	-.2190

MACH (1) = 1.171 BETAT (2) = -4.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3250			.1500	-.2080	-.2860	-.3760	-.3240	.3420	.4450	-.2060		.0610		-.2820
180.000	1.3250	1.2480	.6000	.1180	-.2320	-.3040	-.3980	-.0980	.2860	.4830	-.2010	.1240	.0370	-.1390	-.3130
270.000	1.3250	1.1367													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0930	-.0240	-.0620
30.000	-.0820	-.0230	-.0640
60.000	-.0410	-.0270	-.0790
90.000			-.1310
120.000	.1510	.1600	-.1000
135.000	.1690	.1910	-.0550
150.000	.1830	.1820	-.0360
165.000		.0180	-.0870
180.000	.1420		

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3350	1.1880	.5130	.0470	-.2920	-.3630	-.4500	-.3860	.1190	.1380	-.0720	-.3080	-.0480	.0500	.0270
30.000	1.3350		.5190	.0410	-.2940	-.3650	-.4530	-.3840	.0970	.1100	-.1840	-.1960	-.0460	.0420	-.0520
60.000	1.3350		.5340	.0590	-.2790	-.3510	-.4400	-.1130	.2900	-.0850	-.5550	-.0170	-.0160	.0000	-.0910
90.000	1.3350	1.2190	.5590	.0850	-.2600	-.3410	-.4310	.0320	.5390	-.5100	-.4310	-.1400	-.2740	-.2030	-.1070
120.000	1.3350		.5800	.1080	-.2460	-.3180	-.4070	.0560	.3610	.1310	-.2600	.1450	.0490	-.0900	-.2510
135.000	1.3350							.0580		.2740		.1290		-.1020	
150.000	1.3350		.6050	.1310	-.2330	-.3050	-.3950	.0690	.2220	.3330	-.2000	.1180	.0450	-.1260	-.2690
165.000	1.3350			.1310	-.2280	-.3040	-.3930	.0670	.2240	.3870	-.2510		.0440		-.2790
180.000	1.3350	1.2610	.6150	.1240	-.2290	-.3010	-.3930	.0340	.2370	.4610	-.2520	.1240	.0580	-.1230	-.2690
270.000	1.3350	1.2240													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0730	-.0390	-.0600
30.000	-.0730	-.0320	-.0390
60.000	-.0470	-.0370	-.1210
90.000			-.1540
120.000	.1280	.0480	-.1540
135.000	.1310	.0430	-.1410
150.000	.1500	.0080	-.1650

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBM133)

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
165.000		-.1550	-.1950
180.000	.1650		

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2936	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3220	1.1700	.5030	.0400	-.2910	-.3640	-.4520	-.3830	.1050	.1200	-.0960	-.3180	-.0860	.0200	.0200
30.000	1.3220		.4640	.0000	-.3220	-.3910	-.4690	-.0760	.0680	.0550	-.1090	-.2500	-.0890	.0230	-.0520
60.000	1.3220		.4470	-.0160	-.3300	-.3930	-.4710	-.0420	.1210	-.0170	-.4860	-.0660	-.0800	.0040	-.0510
90.000	1.3220	1.1280	.4620	-.0100	-.3220	-.3960	-.1370	-.0240	.5970	-.4960	-.3270	-.0300	-.2980	-.2350	-.1360
120.000	1.3220		.4870	.0250	-.3030	-.3700	-.0350	.0170	.1740	.1930	-.1420	.0140	.0180	-.1440	-.2870
135.000	1.3220							.0390		.2060		.0450		-.1690	
150.000	1.3220		.5450	.0810	-.2710	-.3420	-.2450	.0230	.1890	.3030	-.2520	.0950	-.0150	-.2030	-.3540
165.000	1.3220			.0990	-.2520	-.3240	-.4090	-.0020	.2400	.4010	-.3500		-.0020		-.3650
180.000	1.3220	1.2500	.6090	.1220	-.2320	-.3020	-.3950	-.1560	.3000	.4840	-.3490	.1500	.0350	-.1520	-.3110
270.000	1.3220	1.2680													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0890	-.0180	-.0630
30.000	-.0490	-.0030	-.0770
60.000	-.0410	-.0130	-.0760
90.000			-.1670
120.000	.1100	-.0130	-.1670
135.000	.1110	-.0320	-.1890
150.000	.1120	-.0670	-.1980
165.000		-.2640	-.2050
180.000	.1420		

MACH (1) = 1.099 BETAT (1) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2810	1.1290	.4730	.0250	-.3060	-.3820	-.4630	-.4120	.0560	.0400	-.1630	-.2840	-.1380	-.0790	-.0320
30.000	1.2810		.3990	-.0500	-.3650	-.4250	-.5090	-.0740	.0430	.0500	-.1630	-.2670	-.1020	-.0190	-.0390
60.000	1.2810		.3640	-.0830	-.3770	-.4370	-.1520	-.0650	-.0030	.0520	-.1850	-.1620	-.1070	-.0220	-.0550
90.000	1.2810	1.0130	.3680	-.0840	-.3760	-.4450	-.0730	-.0630	.4110	-.4520	-.3720	-.0800	-.2630	-.2180	-.1730
120.000	1.2810		.3900	-.0520	-.3610	-.4260	-.0250	-.0270	.0870	.1640	-.1280	.0010	-.0910	-.1930	-.3690
135.000	1.2810							-.0360		.2690		.0390		-.2360	
150.000	1.2810		.4660	.0190	-.3180	-.3940	-.2440	-.0600	.1610	.2390	-.3350	.0440	-.1040	-.3120	-.4520
165.000	1.2810			.0580	-.2900	-.3590	-.4360	-.0920	.2440	.3140	-.4360		-.0980		-.5340
180.000	1.2810	1.2090	.5710	.0980	-.2470	-.3190	-.4180	-.3620	.3080	.4310	-.4370	-.1730	-.0340	-.2490	-.4250
270.000	1.2810	1.3230													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0990	-.0440	-.0960
30.000	-.0340	.0060	-.0970
60.000	-.0520	.0020	-.0870
90.000			-.1820
120.000	.0640	-.0270	-.1970
135.000	.0230	-.0330	-.2400
150.000	.0040	-.2230	-.2540
165.000		-.2780	-.2330
180.000	.0190		

MACH (2) = 1.247 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3620	1.2210	.5370	.0980	-.2070	-.2750	-.3590	-.3230	-.1320	.1070	-.0330	-.2180	-.1680	-.1120	-.0310
30.000	1.3620		.6380	.1830	-.1400	-.2120	-.3050	-.2660	.0080	-.0410	-.2300	-.2670	-.0470	-.0790	-.1080
60.000	1.3620		.7420	.2800	-.0640	-.1450	-.2390	-.1970	.2410	-.0490	-.5240	-.1010	.0120	.0060	-.0260
90.000	1.3620	1.3970	.8110	.3410	-.0160	-.1050	-.1960	-.1150	.5550	-.3270	-.6890	-.2280	-.3170	-.3620	-.1300
120.000	1.3620		.8030	.3390	-.0190	-.1[illegible]	-.1970	-.1510	.3570	.1060	-.2190	.1720	.2110	.0960	-.0430
135.000	1.3620							-.1810		.2530		.1280		.0890	
150.000	1.3620		.7360	.2800	-.0730	-.1520	-.2400	-.2040	.1490	.4160	.0420	-.0550	.1960	.0800	-.0780
165.000	1.3620			.2300	-.1090	-.1860	-.2710	-.2360	.1920	.3300	.0400		.0490		-.1440
180.000	1.3620	1.2800	.6310	.1790	-.1480	-.2230	-.3070	-.2710	.2190	.5660	.0270	-.2680	.0010	-.0220	-.2720
270.000	1.3620	1.0930													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-797 IA9 CBA + S3 + T9 EXTERNAL TANK (RBMT33)

MACH (2) = 1.247 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8328	.9290
PHI			
.000	-.0990	-.0380	-.0460
30.000	-.0590	-.0210	-.0120
60.000	-.0340	-.0340	-.0460
90.000			-.1800
120.000	.0730	.3160	.0940
135.000	.0030	.3630	.0950
150.000	-.0860	.4050	.0950
165.000		.4050	.0940
180.000	-.3740		

MACH (2) = 1.246 BETAT (2) = -4.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4070	1.2580	.5650	.1130	-.1930	-.2600	-.3440	-.2990	-.1540	.1550	.0250	-.1870	-.2230	-.0690	.0120
30.000	1.4070		.6150	.1540	-.1630	-.2310	-.3240	-.2780	.0210	.0690	-.1390	-.2470	-.0470	-.0790	-.0330
60.000	1.4070		.6720	.2080	-.1230	-.2030	-.2890	-.2480	.2110	-.0280	-.3010	-.0850	.0290	-.0220	-.0350
90.000	1.4070	1.3840	.7170	.2490	-.0920	-.1760	-.2600	-.1950	.5530	-.3210	-.6660	-.3360	-.1120	-.3320	-.1900
120.000	1.4070		.7280	.2800	-.0830	-.1650	-.2480	-.2130	.3610	.1740	-.1880	.0440	.1180	.0830	-.1380
135.000	1.4070							-.2190		.3390		-.0310		.0960	
150.000	1.4070		.7080	.2440	-.1010	-.1790	-.2580	-.2230	.2560	.4460	.0060	-.1110	.1210	.0800	-.1330
165.000	1.4070			.2210	-.1160	-.1900	-.2730	-.2380	.2400	.5300	-.0240		.0370		-.1520
180.000	1.4070	1.3270	.6620	.1900	-.1340	-.2070	-.2920	-.2520	.1930	.5880	-.0230	-.1760	-.0570	.0170	-.1690
270.000	1.4070	1.2100													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0410	-.0480	-.0480
30.000	-.0410	-.0310	-.0220
60.000	-.0210	-.0340	-.0430
90.000			-.1240
120.000	-.0190	.2290	-.0380
135.000	-.0790	.2520	-.0140
150.000	-.1250	.2520	-.0130
165.000		.1300	.0500
180.000	-.2620		

MACH (2) = 1.250 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4170	1.2620	.5690	.1190	-.1910	-.2600	-.3410	-.2970	-.1220	.1660	.0490	-.1670	-.2360	-.0900	.0100
30.000	1.4170		.5730	.1180	-.1920	-.2580	-.3420	-.2970	.0400	.0900	-.0520	-.2270	-.0920	-.0620	-.0370
60.000	1.4170		.5920	.1360	-.1740	-.2520	-.3300	-.2940	.1370	.0090	-.4510	-.0670	.0110	-.0530	-.0490
90.000	1.4170	1.2960	.6210	.1600	-.1590	-.2350	-.3110	-.2700	.5610	-.3050	-.5990	-.3770	-.0540	-.2930	-.1620
120.000	1.4170		.6410	.1810	-.1400	-.2160	-.2950	-.2600	.2410	.2290	-.1650	-.0850	.0970	.0350	-.1620
135.000	1.4170							-.2570		.3520		-.0490		.0340	
150.000	1.4170		.6630	.2040	-.1270	-.2050	-.2840	-.2490	.1990	.3350	-.0090	-.0710	.0180	.0160	-.1810
165.000	1.4170			.2050	-.1240	-.2000	-.2810	-.2450	.1920	.3560	-.0520		-.0280		-.1490
180.000	1.4170	1.3400	.6730	.1990	-.1230	-.2000	-.2810	-.2440	.2090	.3530	-.0520	-.0170	-.0200	.0220	-.1490
270.000	1.4170	1.2950													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0090	-.0360	-.0440
30.000	-.0090	-.0240	-.0150
60.000	-.0150	-.0180	-.0390
90.000			-.0960
120.000	-.0350	.1370	-.0960
135.000	-.1280	.1360	-.1130
150.000	-.1680	.1090	-.1130
165.000		-.0170	-.1140
180.000	-.1890		

MACH (2) = 1.250 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4030	1.2410	.5590	.1150	-.1960	-.2590	-.3440	-.2990	-.1220	.1470	.0230	-.1840	-.2140	-.0870	.0090
30.000	1.4030		.5190	.0780	-.2240	-.2790	-.3590	-.3120	.0510	.0390	.0230	-.2190	-.1610	-.0690	-.0490
60.000	1.4030		.5050	.0620	-.2240	-.2920	-.3640	-.3130	.0370	.0570	-.3930	-.0570	-.0250	-.0740	-.0280
90.000	1.4030	1.2020	.5190	.0690	-.2140	-.2880	-.3590	-.1780	.5570	[illegible]	-.4790	-.4050	-.0380	-.2620	-.1260
120.000	1.4030		.5410	.0960	-.1960	-.2690	-.3400	-.1940	.0970	.2 [illegible]	-.1080	-.0840	.0030	.0050	-.2130
135.000	1.4030							-.2430		.2100		-.0580		-.0190	
150.000	1.4030		.6020	.1520	-.1670	-.2420	-.3180	-.2790	.1590	.2730	-.0710	-.1390	-.0490	-.0380	-.2290
165.000	1.4030			.1760	-.1500	-.2250	-.3020	-.2680	.1660	.4250	-.1610		.0180		-.2230
180.000	1.4030	1.3290	.6660	.1950	-.1320	-.2060	-.2900	-.2500	.2260	.5500	-.1580	-.1690	.0360	.0190	-.1820
270.000	1.4030	1.3620													

X/LT	.7449	.8526	.9290
PHI			

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK (RB4T33)

MACH (2) = 1.230 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8528	.9290
PHI			
.000	-.0370	-.0500	-.0440
30.000	-.0350	-.0380	-.0490
60.000	-.0230	-.0360	-.0370
90.000			-.0910
120.000	-.0570	.0140	-.0950
135.000	-.0570	.0150	-.1730
150.000	-.1110	.0070	-.1800
165.000		-.1890	-.2150
180.000	-.2740		

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1900	.2121	.2936	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3670	1.2090	.5360	.0990	-.2050	-.2760	-.3590	-.3220	-.0980	.0830	-.0460	-.2230	-.1560	-.1090	-.0490
30.000	1.3670		.4610	.0310	-.2560	-.3180	-.3970	-.3520	.0360	.0570	-.1360	-.2710	-.1923	-.0790	-.0390
60.000	1.3670		.4250	-.0050	-.2740	-.3380	-.4030	-.2760	-.0220	.1160	-.3200	-.0640	-.0900	-.0750	-.0170
90.000	1.3670	1.0910	.4280	-.0060	-.2740	-.3420	-.4050	-.0660	.4610	-.2860	-.2490	-.3660	-.0040	-.2350	-.1120
120.000	1.3670		.4470	.0230	-.2590	-.3270	-.3940	-.0310	.0200	.2770	-.0670	-.1750	.0350	-.0400	-.2560
135.000	1.3670							-.0270		.2870		-.1590		-.0650	
150.000	1.3670		.5270	.0900	-.2180	-.2920	-.3670	-.3060	.1130	.2880	-.1620	-.2580	.0880	-.1230	-.3320
165.000	1.3670			.1320	-.1850	-.2630	-.3380	-.3010	.1610	.3940	-.2520		.1040		-.3920
180.000	1.3670	1.2920	.6320	.1780	-.1520	-.2270	-.3050	-.2670	.2440	.5160	-.2540	-.2750	.0480	-.0200	-.2650
270.000	1.3670	1.4070													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0570	-.0520	-.0490
30.000	-.0570	-.0460	-.0660
60.000	.0320	-.0390	-.0390
90.000			-.1070
120.000	.0320	.0110	-.1390
135.000	-.0880	.0110	-.1840
150.000	-.1470	-.1790	-.2420
165.000		-.2580	-.2410
180.000	-.3740		

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .900
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.097 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2870	1.1830	.5250	.0680	-.2730	-.3530	-.4430	-.3840	.1000	.0690	-.1340	-.2890	-.1400	-.0840	-.0240
30.000	1.2870		.6310	.1460	-.2050	-.2840	-.3840	-.3150	.1110	-.0230	-.3010	-.0760	-.0970	-.0780	-.0980
60.000	1.2870		.7230	.2380	-.1300	-.2160	-.3210	.0380	.2600	-.1240	-.5750	-.0170	.0270	-.0040	-.0360
90.000	1.2870	1.3280	.7650	.2730	-.1020	-.1920	-.2960	.2210	.5250	-.5020	-.4430	-.0810	-.1010	-.1580	-.1050
120.000	1.2870		.7280	.2500	-.1290	-.2150	-.3070	-.0830	.3310	-.0320	-.3460	.1830	.1390	.0340	-.1340
135.000	1.2870							-.2620		.1360		.1860		.0170	
150.000	1.2870		.6430	.1750	-.1930	-.2760	-.3650	-.3190	.2770	.2910	-.1230	.1420	.1150	-.0490	-.1640
165.000	1.2870			.1200	-.2410	-.3100	-.3990	-.3510	.2760	.4180	-.1320		.0430		-.2600
180.000	1.2870	1.1820	.5370	.0660	-.2700	-.3420	-.4380	-.1190	.2330	.4350	-.2880	-.2200	-.0240	-.2090	-.3900
270.000	1.2870	1.0270													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0940	-.0570	-.0820
30.000	-.0470	-.0140	-.0800
60.000	-.0080	.0170	-.0370
90.000			-.1400
120.000	.1950	.2730	.0920
135.000	.2030	.3140	.0940
150.000	.2100	.3540	.0670
165.000		.3270	.0750
180.000	.0450		

MACH (1) = 1.100 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3260	1.2160	.5490	.0800	-.2650	-.3400	-.4290	-.3670	.1410	.1370	-.0740	-.2910	-.0950	.0090	.0330
30.000	1.3260		.5970	.1120	-.2370	-.3120	-.4050	-.3390	.1520	.0760	-.2140	-.1250	-.0670	.0010	-.0300
60.000	1.3260		.6420	.1590	-.1960	-.2740	-.3720	-.1630	.2980	-.0780	-.5490	-.0060	.0150	-.0070	-.0040
90.000	1.3260	1.2890	.6670	.1780	-.1800	-.2650	-.3620	.0990	.5420	-.4970	-.4440	-.0200	-.0660	-.1400	-.0830
120.000	1.3260		.6480	.1720	-.1930	-.2690	-.3630	-.2440	.3780	.0350	-.3310	.1620	.1220	-.0010	-.1780
135.000	1.3260							-.3160		.1990		.1700		-.0100	
150.000	1.3260		.6120	.1370	-.2280	-.2980	-.3880	-.3330	.2990	.3380	-.1750	.1450	.1180	-.0540	-.1940

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT34)

MACH (1) = 1.100 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3260			.1130	-.2410	-.3150	-.4010	-.2080	.2660	.4350	-.2080		.0870		-.2190
180.000	1.3260	*.2190	.5630	.0820	-.2610	-.3320	-.4220	-.0160	.1960	.4710	-.2150	-.0770	.0650	-.1170	-.2720
270.000	1.3260	1.1370													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0850	-.0380	-.0450
30.000	-.0340	-.0190	-.0470
60.000	-.0270	-.0100	-.1020
90.000			-.1460
120.000	.1470	.1830	-.0170
135.000	.1690	.2030	.0320
150.000	.1900	.2110	.0320
165.000		.0320	.0010
180.000	.1480		

MA (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3380	1.2220	.5560	.0870	-.2610	-.3390	-.4280	-.3660	.1480	.1480	-.0580	-.2830	-.0530	.0450	.0300
30.000	1.3380		.5550	.0810	-.2690	-.3450	-.4300	-.3650	.1260	.1200	-.1350	-.1910	-.0530	.0400	-.0400
60.000	1.3380		.5570	.0630	-.2630	-.3380	-.4260	-.0910	.2940	-.0350	-.4970	-.0070	-.0180	.0110	-.0210
90.000	1.3380	1.2210	.5660	.0870	-.2580	-.3400	-.4270	.0310	.5680	-.4950	-.4070	.0090	-.0740	-.1470	-.1080
120.000	1.3380		.5580	.0920	-.2570	-.3360	-.4180	.0190	.3780	.0760	-.3210	.1590	.0660	-.0750	-.2380
135.000	1.3380							.0260		.2420		.1510		-.0820	
150.000	1.3380		.5690	.1000	-.2570	-.3300	-.4150	.0380	.1680	.3090	-.1910	.0970	.0810	-.1040	-.2490
165.000	1.3380			.0960	-.2560	-.3310	-.3880	.0540	.1720	.3350	-.2130		.0800		-.2490
180.000	1.3380	1.2360	.5740	.0880	-.2590	-.3290	-.4030	.0570	.1700	.3670	-.2620	.0230	.0710	-.0920	-.2480
270.000	1.3380	1.2290													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0830	-.0510	-.0570
30.000	-.0830	-.0280	-.0400
60.000	-.0420	-.0360	-.0980
90.000			-.1520
120.000	.1180	.0580	-.1520
135.000	.1180	.0460	-.1180
150.000	.1400	.0020	-.1410

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBMT34)

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8326	.9290
PHI			
185.000		-.1680	-.1660
180.000	.1580		

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3250	1.2010	.5420	.0780	-.2670	-.3430	-.4290	-.3710	.1400	.1280	-.0850	-.2980	-.1040	.0110	.0280
30.000	1.3250		.4920	.0260	-.3090	-.3740	-.4560	-.1390	.1110	.0640	-.1390	-.2520	-.1000	.0130	-.0300
60.000	1.3250		.4640	-.0020	-.3240	-.3860	-.4670	-.0260	.1500	.0290	-.4410	-.0770	-.0770	.0120	-.0300
90.000	1.3250	1.1250	.4610	-.0070	-.3260	-.3940	-.2190	-.0160	.6140	-.4910	-.2460	-.0240	-.1190	-.1500	-.1230
120.000	1.3250		.4670	.0100	-.3160	-.3830	-.0670	.0070	.1600	.1540	-.2630	.0220	.0300	-.1210	-.2810
135.000	1.3250							.0180		.2210		.0240		-.1400	
150.000	1.3250		.5090	.0510	-.2960	-.3640	-.0750	.0210	.1470	.2640	-.2440	.0200	.0160	-.1780	-.3180
165.000	1.3250			.0670	-.2780	-.3510	-.2640	-.0020	.1520	.3730	-.3460		.0210		-.3410
180.000	1.3250	1.2240	.5685	.0860	-.2630	-.3330	-.4210	-.0300	.2190	.4760	-.3450	-.0390	.0580	-.1330	-.2920
270.000	1.3250	1.2930													

X/L.	.7449	.8326	.9290
PHI			
.000	-.0650	-.0350	-.0440
30.000	-.0830	-.0060	-.0720
60.000	-.0270	-.0060	-.0720
90.000			-.1490
120.000	.1070	-.0010	-.1420
135.000	.1090	.0200	-.1740
150.000	.1140	-.0770	-.1720
165.000		-.2210	-.1730
180.000	.1430		

AMES 11-707 IA9 CRA + S5 + T9 EXTERNAL TANK (RBNT34)

MACH (1) = 1.099 BETAT (5) = 8.259

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2850	1.1830	.5170	.0580	-.2810	-.3560	-.4410	-.3880	.0810	.0540	-.1450	-.2440	-.1550	-.1000	-.0410
30.000	1.2850		.4280	-.0250	-.3490	-.4130	-.4970	-.0670	.0740	.0790	-.1440	-.2590	-.1230	-.0320	-.0490
60.000	1.2850		.3770	-.0710	-.3790	-.4320	-.2400	-.0630	.0020	.0970	-.3290	-.1760	-.0930	-.0220	-.0510
90.000	1.2850	1.0180	.3720	-.0860	-.3750	-.4410	-.1000	-.0600	.5560	-.4460	-.1070	-.2140	-.1030	-.1390	-.1550
120.000	1.2850		.3760	-.0640	-.3670	-.4310	-.0490	-.0340	.0610	.1500	-.1170	-.0460	-.0080	-.1640	-.3480
135.000	1.2850							-.0260		.2940		.0200		-.1940	
150.000	1.2850		.4360	-.0090	-.3340	-.4090	-.0670	-.0430	.0940	.2330	-.3270	.0160	-.0920	-.2790	-.4180
165.000	1.2850			.0230	-.3140	-.3940	-.3730	-.0600	.1550	.3080	-.4340		-.0740		-.4950
180.000	1.2850	1.1820	.5300	.0610	-.2790	-.3460	-.4410	-.2030	.2370	.4240	-.3940	-.2210	-.0180	-.2320	-.4170
270.000	1.2850	1.3310													

X/LT	.7449	.8328	.9290
PHI			
.000	-.0910	-.0440	-.0990
30.000	-.0670	-.0020	-.0980
60.000	-.0320	.0020	-.0840
90.000			-.1830
120.000	.0650	-.0150	-.1630
135.000	.0300	-.0180	-.2290
150.000	.0130	-.2240	-.2470
165.000		-.2850	-.2480
180.000	.0280		

MACH (2) = 1.249 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5870	1.2540	.5820	.1350	-.1770	-.2480	-.3380	-.2950	-.1690	.1210	-.0170	-.1580	-.1550	-.1190	-.0490
30.000	1.5870		.6820	.2200	-.1080	-.1810	-.2830	-.2340	.0420	-.0060	-.2080	-.2270	-.0380	-.0830	-.1000
60.000	1.5870		.7750	.3080	-.0410	-.1280	-.2210	-.1760	.2800	.0010	-.4780	-.0980	.0230	.0180	-.0090
90.000	1.5870	1.4030	.8150	.3450	-.0110	-.1040	-.1990	-.1690	.5610	-.5120	-.5120	-.0950	-.1120	-.2940	-.1080
120.000	1.5870		.7820	.3170	-.0370	-.1210	-.2090	-.1550	.3130	.0380	-.2750	.1520	.1620	.0180	-.0390
135.000	1.5870							-.2140		.2060		.1070		.1010	
150.000	1.5870		.6370	.2450	-.1010	-.1780	-.2630	-.2390	.0810	.3840	.0350	-.0920	.1490	.0850	-.0810
165.000	1.5870			.1890	-.1380	-.2150	-.2940	-.2620	.1480	.5220	.0370		.0980		-.1320
180.000	1.5870	1.2590	.5910	.1470	-.1740	-.2470	-.3280	-.2330	.1750	.5210	-.0580	-.2710	-.0840	.0090	-.2500
270.000	1.5870	1.7970													

X/LT	.7449	.8328	.9290
PHI			

DATE 24 SEP 91 TABULATED PRESSURE DATA - 149A

AMES 11-FT WAS TRA + 5% + 79 EXTERNAL TANK

MACH = 2.[illegible] 1.249 BETA = 11.[illegible] -0.16

SECTION = 3 EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .7449 .8928 .9[illegible]

PHI

.000	-.[illegible]	-.[illegible]	-.[illegible]
30.000	-.[illegible]	-.[illegible]	-.[illegible]
60.000	-.[illegible]	-.[illegible]	-.[illegible]
90.000			-.[illegible]
120.000	.[illegible]	.[illegible]	.[illegible]
135.000	.[illegible]	.[illegible]	.[illegible]
150.000	.[illegible]	.[illegible]	.[illegible]
165.000	.[illegible]	.[illegible]	.[illegible]
180.000	-.[illegible]		

MACH = 2.[illegible] 1.25[illegible] BETA = 2.[illegible] -6.0[illegible]

SECTION = 3 EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.[illegible]	.[illegible]	.7492	.[illegible]	.1744	.[illegible]	.2121	.2538	.2874	.3612	.3997	.4489	.5027	.5381	.[illegible]
PHI															
.000	1.4[illegible]	1.2[illegible]	.8[illegible]	.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	.2[illegible]	-.1[illegible]	.[illegible]	.[illegible]	-.1[illegible]	-.[illegible]	-.[illegible]	-.[illegible]
30.000	1.4[illegible]		.8[illegible]	.[illegible]	.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.[illegible]	-.2[illegible]	-.[illegible]	-.[illegible]	-.[illegible]
60.000	1.4[illegible]		.[illegible]	.[illegible]	-.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	-.[illegible]	-.[illegible]
90.000	1.4[illegible]	1.[illegible]	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	-.[illegible]
120.000	1.4[illegible]		.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	
135.000	1.4[illegible]							-.[illegible]	.[illegible]			.[illegible]	.[illegible]	.[illegible]	.[illegible]
150.000	1.4[illegible]		.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	-.[illegible]
165.000	1.4[illegible]			.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]		-.[illegible]
180.000	1.4[illegible]	1.2[illegible]	.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	-.[illegible]
270.000	1.4[illegible]	1.2[illegible]													

X/LT .7449 .8928 .92[illegible]

PHI

.000	-.[illegible]	-.[illegible]	-.[illegible]
30.000	-.[illegible]	-.[illegible]	-.[illegible]
60.000	-.[illegible]	-.[illegible]	-.[illegible]
90.000			-.[illegible]
120.000	-.[illegible]	.[illegible]	.[illegible]
135.000	-.[illegible]	.[illegible]	.[illegible]
150.000	-.[illegible]	.[illegible]	.[illegible]
165.000	.[illegible]	.[illegible]	.[illegible]
180.000	-.[illegible]		

DATE 24 SEP 79 TABULATED PRESSURE DATA - 1498

AMES 11-FT T 149 IBA + 33 + 79 EXTERNAL TANK (BSW7361)

MACH (2) = 1.240 BETAT (3) = .00

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.4170	1.2060	.6130	.1550	-.1430	-.2340	-.3190	-.2770	.1720	.1980	.0690	-.1490	-.2180	-.0810	-.0010
30.000	1.4170		.6170	.1490	-.1540	-.2420	-.3220	-.2790	.1530	.1810	-.0130	-.2150	-.1490	-.0810	-.0480
60.000	1.4170		.6130	.1330	-.1650	-.2530	-.3370	-.2780	.1320	.1480	-.0430	-.2150	-.1490	-.0480	-.0530
90.000	1.4170	1.2340	.6130	.1550	-.1450	-.2230	-.3140	-.2770	.1660	.1960	-.0430	-.2150	-.1490	-.1320	-.1390
120.000	1.4170		.6130	.1530	-.1550	-.2370	-.3060	-.2790	.1680	.1960	-.0430	-.2150	-.1490	-.0810	-.1680
135.000	1.4170							-.2790		.1810		-.2150		-.0810	
150.000	1.4170		.6240	.1710	-.1580	-.2260	-.3040	-.2660	.1440	.2110	-.0130	-.2150	-.1490	-.0810	-.1440
165.000	1.4170			.1670	-.1550	-.2280	-.3020	-.2670	.1540	.1810	-.0430		-.1490		-.1430
180.000	1.4170	1.3060	.6290	.1590	-.1570	-.2260	-.3070	-.2670	.1620	.1920	-.0430	-.2150	-.1490	-.1490	-.1410
270.000	1.4170	1.3710													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0040	-.0260	-.0460
30.000	-.0040	-.0130	-.0130
60.000	-.0030	-.0190	-.0330
90.000			-.0980
120.000	-.0480	.1400	-.0980
135.000	-.0870	.1360	-.0770
150.000	-.1360	.1100	-.0690
165.000		-.0190	-.0910
180.000	-.1410		

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2674	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.4030	1.2740	.5990	.1520	-.1680	-.2390	-.3240	-.2850	-.1660	.1610	.0290	-.1790	-.1340	-.0760	-.0020
30.000	1.4030		.5500	.1040	-.2010	-.2670	-.3490	-.3050	.0650	.0670	-.0120	-.2150	-.1660	-.0760	-.0350
60.000	1.4030		.5240	.0800	-.2140	-.2860	-.3610	-.3160	.0510	.1070	-.3480	-.0370	-.0540	-.0890	-.0180
90.000	1.4030	1.2000	.5200	.0750	-.2170	-.2930	-.3660	-.1990	.5570	-.3040	-.3480	-.1140	.0170	-.1330	-.1170
120.000	1.4030		.5290	.0860	-.2090	-.2830	-.3550	-.0640	.0670	.2260	-.1490	-.0850	-.0000	.0120	-.1870
135.000	1.4030							-.0780		.1800		-.0970		.0000	
150.000	1.4030		.5680	.1230	-.1910	-.2640	-.3380	-.2440	.1330	.2480	-.0770	-.2070	-.0910	-.0170	-.2040
165.000	1.4030			.1430	-.1780	-.2510	-.3260	-.2890	.1250	.3570	-.1650		-.1020		-.2190
180.000	1.4030	1.2980	.6240	.1610	-.1640	-.2360	-.3170	-.2740	.1850	.5250	-.1580	-.1890	-.0890	.0410	-.1780
270.000	1.4030	1.3670													

X/LT	.7449	.8528	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT34)

AMES 11-707 IA9 CBA + S3 + T9 EXTERNAL TANK

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0360	-.0410	-.0450
30.000	-.0380	-.0340	-.0470
60.000	-.0050	-.0330	-.0370
90.000			-.0930
120.000	-.0500	.0200	-.0930
135.000	-.0490	.0200	-.1330
150.000	-.0580	.0050	-.1360
165.000		-.2040	-.1860
180.000	-.2440		

MACH (2) = 1.247 BETAT (5) = 8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3710	1.2410	.5760	.1280	-.1620	-.2540	-.3380	-.3040	-.1270	.0950	-.0340	-.2050	-.1470	-.1220	-.0550
30.000	1.3710		.4880	.0480	-.2440	-.3050	-.3870	-.3430	.0570	.0840	-.0820	-.2360	-.1770	-.0690	-.0360
60.000	1.3710		.4350	.0020	-.2710	-.3370	-.4020	-.3430	-.0120	.1750	-.2740	-.0420	-.1370	-.0630	-.0110
90.000	1.3710	1.0930	.4270	-.0050	-.2760	-.3440	-.4060	-.0720	.5190	-.2790	-.1340	-.1220	-.0640	-.1220	-.0920
120.000	1.3710		.4340	.0100	-.2680	-.3360	-.3990	-.0430	.0180	.2720	-.1250	-.1700	-.0520	-.0230	-.2260
135.000	1.3710							-.0310		.1830		-.1640		-.0390	
150.000	1.3710		.4990	.0620	-.2410	-.3100	-.3810	-.1710	.0990	.2750	-.1410	-.2620	.0400	-.0890	-.2970
165.000	1.3710			.0980	-.2130	-.2870	-.3580	-.3150	.1580	.3650	-.2460		.0480		-.3640
180.000	1.3710	1.2690	.5920	.1360	-.1810	-.2530	-.3290	-.2900	.1930	.5200	-.1810	-.2910	-.0440	-.0140	-.2520
270.000	1.3710	1.4090													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0540	-.0470	-.0490
30.000	-.0280	-.0400	-.0840
60.000	.0450	-.0400	-.0450
90.000			-.1120
120.000	.0450	.0310	-.1120
135.000	-.0390	.0210	-.1740
150.000	-.1080	-.1530	-.2270
165.000		-.2390	-.2250
180.000	-.3580		

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A (RBNT39) (27 APR 79)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	28.5300 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHAT =	2.000	ORBINC =	.500
RUDDER =	-15.000	ELEVON =	.000
RUDFLR =	.000		

MACH (1) = 1.102 BETAT (1) = -8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2810	1.2160	.5610	.1160	-.2370	-.3170	-.4100	-.3510	.1250	.0770	-.1120	-.2330	-.1400	-.1030	-.0400
30.000	1.2810		.6680	.2010	-.1630	-.2420	-.3460	-.2740	.1430	.0150	-.2240	-.0460	-.0410	-.0610	-.0690
60.000	1.2810		.7620	.2730	-.1020	-.1810	-.2920	.0680	.3170	-.0610	-.4870	.0170	.0400	.0110	-.0190
90.000	1.2810	1.3260	.7670	.2770	-.0990	-.1850	-.2940	.2400	.5140	-.4880	-.3840	.0260	.0450	-.0180	-.0560
120.000	1.2810		.6930	.2170	-.1580	-.2360	-.3300	.0390	.2600	-.1130	-.1720	.1150	.1360	.0710	-.0900
135.000	1.2810							-.2550		.0630		.1410		.0380	
150.000	1.2810		.5830	.1220	-.2370	-.3170	-.4020	-.3510	.2000	.2450	-.1740	.1030	.1280	-.0330	-.1360
165.000	1.2810			.0630	-.2850	-.3540	-.4350	-.1740	.1860	.3860	-.1470		.0540		-.2300
180.000	1.2810	1.1310	.4750	.0150	-.3120	-.3840	-.4470	-.0560	.1300	.3870	-.1610	-.2330	-.0160	-.1950	-.3420
270.000	1.2810	1.0140													

X/LT	.7449	.8528	.9290
PHI			
.000	-.0940	-.0450	-.0820
30.000	-.0920	.0120	-.0600
60.000	.0230	.0460	-.0600
90.000			-.1720
120.000	.1910	.3220	.1100
135.000	.2090	.3610	.1130
150.000	.2390	.3970	.0960
165.000		.3810	.0970
180.000	.0790		

MACH (1) = 1.095 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3210	1.2570	.6060	.1330	-.2220	-.3040	-.3990	-.3370	.1740	.1530	-.0540	-.2540	-.1050	-.0050	.0960
30.000	1.3210		.6560	.1690	-.1940	-.2790	-.3730	-.3040	.1900	.1060	-.1790	-.1010	-.0630	.0020	-.0160
60.000	1.3210		.6780	.1940	-.1730	-.2540	-.3550	-.1930	.3420	-.0140	-.4780	.0150	.0190	.0160	.0040
90.000	1.3210	1.2860	.6650	.1790	-.1820	-.2670	-.3670	.0780	.5260	-.4950	-.4210	.0420	.0910	.0040	-.0330
120.000	1.3210		.6150	.1400	-.2190	-.2950	-.3860	-.0780	.3150	-.0510	-.2260	.1320	.1110	.0260	-.1400
135.000	1.3210							-.2140		.1370		.1700		.0050	
150.000	1.3210		.5530	.0890	-.2650	-.3400	-.4180	-.1370	.2010	.2940	-.1870	.1550	.1140	-.0410	-.1580

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT35)

AMES 11-707 IA9 O2A + S3 + T9 EXTERNAL TANK

MACH (1) = 1.095 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3210			.0590	-.2870	-.3590	-.4370	-.0330	.1650	.3960	-.2160		.0870		-.1650
180.000	1.3210	1.1690	.5020	.0270	-.3040	-.3730	-.1790	-.0180	.1110	.3950	-.3300	-.0770	.0580	-.1040	-.2410
270.000	1.3210	1.1290													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0740	-.0410	-.0290
30.000	-.0520	-.0010	-.0280
60.000	-.0080	.0090	-.0770
90.000			-.1980
120.000	.1280	.2150	.0610
135.000	.1550	.2370	.0490
150.000	.1850	.2430	.0290
165.000		.0980	.0250
180.000	.1360		

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3350	1.2650	.6180	.1390	-.2190	-.3000	-.3950	-.3320	.1740	.1730	-.0340	-.2440	-.0510	.0460	.0480
30.000	1.3350		.6070	.1210	-.2510	-.3080	-.4040	-.3330	.1620	.1480	-.1240	-.1850	-.0510	.0430	-.0180
60.000	1.3350		.5860	.1060	-.2420	-.3180	-.4100	-.1500	.3070	.0320	-.4300	.0020	-.0080	.0270	-.0040
90.000	1.3350	1.2200	.5650	.0880	-.2560	-.3390	-.4270	.0240	.5510	-.4960	-.4030	.0770	.0400	-.0140	-.0590
120.000	1.3350		.5330	.0660	-.2740	-.3510	-.4320	.0030	.3100	.0040	-.3920	.1570	.0830	-.0390	-.1950
135.000	1.3350							-.0060		.1840		.1630		-.0520	
150.000	1.3350		.5200	.0560	-.2930	-.3600	-.4240	-.0080	.1190	.2690	-.1710	.1030	.0780	-.0750	-.1950
165.000	1.3350			.0470	-.2940	-.3650	-.1530	.0030	.1250	.2850	-.0790		.0780		-.1900
180.000	1.3350	1.1880	.5150	.0400	-.2950	-.3640	-.0980	.0130	.1270	.2910	-.0330	.0570	.0830	-.0520	-.1860
270.000	1.3350	1.2250													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0520	-.0540	-.0530
30.000	-.0260	-.0330	-.0430
60.000	-.0100	-.0140	-.0720
90.000			-.1890
120.000	.0840	.0740	-.0370
135.000	.1030	.0630	-.0580
150.000	.1190	.0060	-.0840

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7OT IA9 CEA + S3 + T9 EXTERNAL TANK (RBMT35)

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1790	-.1220
180.000	.1400		

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.9027	.9565	.9372
PHI															
.000	1.3200	1.2420	.5980	.1300	-.2260	-.3010	-.3940	-.3390	.1770	.1500	-.0530	-.2530	-.1020	-.0140	.0970
30.000	1.3200		.5370	.0680	-.2800	-.3440	-.4350	-.3620	.1430	.1230	-.1170	-.2300	-.0960	-.0060	-.0160
60.000	1.3200		.4870	.0200	-.3090	-.3680	-.4560	-.0240	.1760	.0920	-.3650	-.0670	-.0750	.0090	-.0160
90.000	1.3200	1.1270	.4610	-.0070	-.3240	-.3880	-.4560	-.0120	.6020	-.4920	-.2670	.0150	-.0060	-.0390	-.0910
120.000	1.3200		.4420	-.0120	-.3330	-.3910	-.1440	-.0100	.1680	.0750	-.3330	.0590	.0460	-.0830	-.2340
135.000	1.3200							-.0070		.2000		.0440		-.1000	
150.000	1.3200		.4650	.0070	-.3240	-.3860	-.0410	.0040	.1150	.2760	-.2160	.0460	.0250	-.1350	-.2590
165.000	1.3200			.0160	-.3160	-.3780	-.0630	.0070	.1020	.2870	-.3040		.0320		-.2870
180.000	1.3200	1.1780	.5060	.0290	-.3040	-.3630	-.2880	-.0140	.1050	.4240	-.3010	.0010	.0670	-.1060	-.2380
270.000	1.3200	1.2870													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0680	-.0410	-.0220
30.000	-.0350	-.0100	-.0480
60.000	.0070	.0160	-.0710
90.000			-.1540
120.000	.0720	.0380	-.1530
135.000	.0930	.0110	-.1290
150.000	.1110	-.0280	-.1610
165.000		-.1930	-.1800
180.000	.1480		

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A (RBNT35)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (1) = 1.198 BETAT (5) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2830	1.2040	.5770	.1110	-.2560	-.3220	-.4090	-.3500	.1120	.0690	-.1170	-.2020	-.1420	-.1060	-.0290
30.000	1.2830		.4660	.0150	-.3260	-.3920	-.4740	-.1230	.1070	.1130	-.1160	-.2400	-.1370	-.0460	-.0370
60.000	1.2830		.3940	-.0570	-.3660	-.4220	-.2150	-.0610	.0200	.1600	-.2780	-.1550	-.0970	-.0370	-.0420
90.000	1.2830	1.0120	.3670	-.0850	-.3780	-.4400	-.1110	-.0550	.6070	-.4460	-.0940	-.1530	-.0310	-.0710	-.1730
120.000	1.2830		.3570	-.0840	-.3780	-.4390	-.0720	-.0470	.0640	.1320	-.1360	-.1020	.0100	-.1310	-.3010
135.000	1.2830							-.0340		.1700		-.0140		-.1560	
150.000	1.2830		.3980	-.0420	-.3620	-.4250	-.0410	-.0240	.0700	.2270	-.2910	-.0050	-.0360	-.2180	-.3560
165.000	1.2830			-.0220	-.3440	-.4090	-.0670	-.0380	.0710	.2650	-.4230		-.0530		-.4460
180.000	1.2830	1.1360	.4720	.0100	-.3220	-.3820	-.4470	-.0560	.1370	.4040	-.4230	-.2140	-.0010	-.2080	-.3480
270.000	1.2830	1.3260													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0890	-.0400	-.0800
30.000	-.0720	-.0030	-.0800
60.000	.0120	.0230	-.0800
90.000			-.1560
120.000	.0640	.0330	-.1560
135.000	.0630	.0090	-.1910
150.000	.0680	-.1950	-.2210
165.000		-.2300	-.2260
180.000	.0390		

MACH (2) = 1.248 BETAT (1) = -8.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3580	1.2930	.6360	.1840	-.1440	-.2190	-.3110	-.2710	-.1590	.1280	-.0030	-.1700	-.1180	-.1020	-.0710
30.000	1.3580		.7390	.2700	-.0700	-.1450	-.2450	-.2030	.0970	.0330	-.1720	-.1850	-.0020	-.0360	-.0830
60.000	1.3580		.8130	.3420	-.0150	-.1010	-.1990	-.1530	.3370	.0610	-.4200	-.0410	.0490	.0360	-.0040
90.000	1.3580	1.4020	.8160	.3410	-.0110	-.1000	-.1980	-.1590	.5530	-.3060	-.4380	-.0020	.0460	.0190	-.0560
120.000	1.3580		.7460	.2850	-.0660	-.1470	-.2540	-.1980	.2300	-.0610	-.1650	.0430	.0960	.1020	-.0210
135.000	1.3580							-.2380		.0960		.0150		.0790	
150.000	1.3580		.6390	.1900	-.1450	-.2200	-.3030	-.2690	.0360	.3140	.0120	-.0220	.1830	.0540	-.0210
165.000	1.3580			.1310	-.1870	-.2570	-.3330	-.3000	.1060	.4830	.0270		.0360		-.0900
180.000	1.3580	1.2040	.5260	.0840	-.2180	-.2890	-.3660	-.3270	.0960	.5010	-.0730	-.2530	-.1270	-.0080	-.2190
270.000	1.3580	1.0850													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-FDT IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT35)

MACH (2) = 1.248 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0810	-.0190	-.0370
30.000	-.0800	.0030	-.0040
60.000	.0090	.0080	-.0050
90.000			-.2200
120.000	.1110	.3600	.2300
135.000	.0520	.4090	.2210
150.000	-.0320	.4500	.2080
165.000		.4600	.2160
180.000	-.3060		

MACH (2) = 1.244 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4020	1.3330	.6650	.2040	-.1250	-.2010	-.2940	-.2550	-.1800	.2000	.0590	-.1370	-.1630	-.0750	-.0040
30.000	1.4020		.7130	.2450	-.1000	-.1710	-.2700	-.2270	.0820	.1110	-.0380	-.1770	-.0300	-.0580	-.0570
60.000	1.4020		.7340	.2620	-.0770	-.1610	-.2540	-.2120	.2770	.0850	-.3690	-.0270	.0290	.0020	-.0320
90.000	1.4020	1.3650	.7240	.2520	-.0880	-.1740	-.2620	-.2240	.5400	-.3090	-.4480	.0190	.0480	.0250	-.0310
120.000	1.4020		.6740	.2120	-.1240	-.2030	-.2820	-.2450	.2100	.0400	-.3120	-.0100	.0530	.0650	-.0640
135.000	1.4020							-.2660		.2100		-.0600		.0670	
150.000	1.4020		.6140	.1590	-.1660	-.2380	-.3160	-.2790	.1630	.3700	-.0220	-.1690	.1620	.1070	-.0860
165.000	1.4020			.1300	-.1840	-.2550	-.3320	-.2930	.1250	.4400	-.0450		.0260		-.1190
180.000	1.4020	1.2470	.5600	.1010	-.1990	-.2720	-.3470	-.3040	.0780	.4030	-.1150	-.1540	-.1500	.0980	-.1570
270.000	1.4020	1.2060													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0390	-.0160	-.0180
30.000	-.0360	.0010	-.0030
60.000	.0000	.0090	-.0230
90.000			-.1850
120.000	.0000	.2670	.0410
135.000	-.0400	.2920	.0710
150.000	-.0880	.2920	.0730
165.000		.1770	.0740
180.000	-.1990		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7DT IA9 CEA + S3 + T9 EXTERNAL TANK (RBMT39)

MACH (2) = 1.250 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4190	1.3480	.6730	.2110	-.1200	-.1930	-.2890	-.2510	-.1750	.2210	.0820	-.1170	-.1750	-.0470	-.0060
30.000	1.4190		.6660	.1970	-.1330	-.2010	-.2900	-.2530	.0700	.1390	.0240	-.1640	-.0620	-.0520	-.0630
60.000	1.4190		.6470	.1780	-.1420	-.2210	-.3050	-.2620	.1710	.1280	-.3310	-.0300	.0060	-.0200	-.0300
90.000	1.4190	1.2980	.6200	.1570	-.1570	-.2400	-.3180	-.2790	.5770	-.3010	-.1340	.0420	.0450	.0180	-.0540
120.000	1.4190		.5910	.1370	-.1770	-.2530	-.3270	-.2890	.2930	.0780	-.3010	.0200	.0490	.0420	-.1080
135.000	1.4190							-.2930		.1950		-.0360		.0450	
150.000	1.4190		.5740	.1260	-.1900	-.2640	-.3340	-.2650	.1070	.2190	-.0080	-.1470	.0140	.0550	-.1080
165.000	1.4190			.1160	-.1930	-.2640	-.3380	-.2740	.1080	.2210	-.0300		-.0540		-.1190
180.000	1.4190	1.2810	.5690	.1090	-.1940	-.2670	-.3410	-.2980	.0970	.2870	-.0870	-.0590	-.2270	.1230	-.1100
270.000	1.4190	1.3000													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0080	-.0080	-.0400
30.000	.0040	.0000	-.0100
60.000	.0110	.0140	-.0350
90.000			-.1170
120.000	-.0410	.1400	-.0240
135.000	-.0680	.1400	-.0090
150.000	-.1000	.1110	-.0360
165.000		-.0160	-.0780
180.000	-.0950		

MACH (2) = 1.248 BETAT (4) = 4.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4040	1.3190	.6570	.2050	-.1250	-.1990	-.2940	-.2510	-.1730	.1970	.0560	-.1380	-.1730	-.0780	-.0130
30.000	1.4040		.5980	.1490	-.1690	-.2380	-.3260	-.2830	.0810	.1520	-.0100	-.1950	-.1340	-.0750	-.0490
60.000	1.4040		.5470	.0990	-.1990	-.2700	-.3480	-.3090	.0790	.1840	-.2770	-.0210	-.0670	-.0570	-.0280
90.000	1.4040	1.2030	.5250	.0790	-.2160	-.2880	-.3620	-.3140	.5770	-.3000	-.3420	.0310	-.0260	-.0060	-.0630
120.000	1.4040		.5060	.0690	-.2200	-.2920	-.3600	-.3020	.0800	.1590	-.2380	-.0360	-.0300	.0550	-.1420
135.000	1.4040							-.2690		.2210		-.1070		.0330	
150.000	1.4040		.5270	.0870	-.2160	-.2900	-.3570	-.2200	.0900	.2420	-.0280	-.2340	-.0790	.0170	-.1670
165.000	1.4040			.0970	-.2090	-.2810	-.3520	-.2540	.0980	.2500	-.1240		-.1970		-.1840
180.000	1.4040	1.2990	.5690	.1090	-.2010	-.2710	-.3510	-.3010	.0810	.4000	-.1210	-.1540	-.1620	.0890	-.1450
270.000	1.4040	1.3670													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT39)

MACH (2) = 1.248 BETAT (4) = 4.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0350	-.0250	-.0250
30.000	-.0370	-.0200	-.0440
60.000	.0230	-.0110	-.0430
90.000			-.1100
120.000	-.0340	.0200	-.1090
135.000	-.0340	-.0020	-.0880
150.000	-.0320	-.0550	-.0930
165.000		-.1910	-.1700
180.000	-.1920		

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3620	1.2800	.6300	.1840	-.1370	-.2140	-.3100	-.2790	-.1380	.1080	-.0110	-.1750	-.1280	-.1210	-.0700
30.000	1.3620		.5250	.0900	-.2190	-.2830	-.3720	-.3320	.0710	.1230	-.0100	-.2060	-.1440	-.1090	-.0620
60.000	1.3620		.4520	.0200	-.2610	-.3270	-.3980	-.3580	-.0080	.2530	-.2030	-.0240	-.1380	-.0640	-.0500
90.000	1.3620	1.0870	.4260	-.0090	-.2770	-.3460	-.4100	-.1130	.5700	-.2810	-.1650	-.0240	-.1590	-.0170	-.0890
120.000	1.3620		.4140	-.0060	-.2760	-.3430	-.4040	-.0650	.0130	.2090	-.1670	-.1410	-.0930	.0040	-.1840
135.000	1.3620							-.0460		.1430		-.1530		-.0110	
150.000	1.3620		.4520	.0290	-.2590	-.3290	-.3960	-.0730	.0780	.2730	-.1200	-.2780	-.0130	-.0400	-.2110
165.000	1.3620			.0540	-.2410	-.3150	-.3820	-.3200	.1320	.3050	-.2250		-.0820		-.2920
180.000	1.3620	1.2120	.5290	.0910	-.2180	-.2890	-.3640	-.3260	.1010	.4680	-.2240	-.2770	-.1400	.0200	-.2050
270.000	1.3620	1.4020													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0890	-.0260	-.0370
30.000	.0300	-.0260	-.0570
60.000	.0910	-.0340	-.0570
90.000			-.1360
120.000	.0470	.0370	-.1360
135.000	.0170	.0420	-.1460
150.000	-.0250	-.1150	-.1950
165.000		-.2140	-.2020
180.000	-.2980		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT36) (27 APR 73)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0390 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .990
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.103 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2690	1.2440	.6280	.1600	-.2020	-.7600	-.3780	-.3160	.1380	.0900	-.0850	-.1840	-.1300	-.0980	-.0910
30.000	1.2690		.7350	.2480	-.1270	-.2090	-.3100	-.2380	.1690	.0490	-.2270	-.0270	-.0290	-.0270	-.0610
60.000	1.2690		.7880	.3020	-.0830	-.1590	-.2690	.0690	.3590	-.0070	-.4430	.0210	.0530	.0430	.0080
90.000	1.2690	1.3150	.7990	.2710	-.1050	-.1880	-.2940	.2330	.4910	-.4990	-.3740	-.0090	.0820	.0690	.0060
120.000	1.2690		.6510	.1810	-.1870	-.2610	-.3560	-.0010	.1850	-.1850	-.2910	.0190	.1000	.0880	-.0460
135.000	1.2690							-.1940		-.0130		.0960		.0450	
150.000	1.2690		.5310	.0760	-.2770	-.3490	-.4330	-.2650	.1150	.1990	-.0730	.0970	.1020	-.0280	-.1080
165.000	1.2690			.0150	-.3210	-.3840	-.4610	-.0700	.1000	.3480	-.1390		.0430		-.1990
180.000	1.2690	1.0880	.4260	-.0310	-.3450	-.4140	-.1730	-.0550	.0550	.3660	-.2710	-.1880	-.0900	-.1800	-.2920
270.000	1.2690	1.0070													

X/LT	.7449	.8326	.9290
PHI			
.000	-.0800	-.0150	-.0640
30.000	-.0170	.0680	-.0230
60.000	.0450	.1090	-.0230
90.000			-.2610
120.000	.1880	.3210	.1290
135.000	.1880	.3610	.1140
150.000	.2180	.3920	.0960
165.000		.3990	.1160
180.000	.0820		

MACH (1) = 1.399 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3090	1.2820	.6570	.1780	-.1880	-.2710	-.3660	-.3020	.2020	.1710	-.0290	-.2170	-.0950	-.0180	.0500
30.000	1.3090		.6980	.2060	-.1600	-.2440	-.3420	-.2740	.2210	.1340	-.1540	-.0750	-.0620	.0200	-.0080
60.000	1.3090		.6990	.2090	-.1590	-.2350	-.3400	-.2180	.3760	.0310	-.4080	-.0040	.0060	.0400	.0230
90.000	1.3090	1.2740	.6560	.1700	-.1870	-.2690	-.3660	.0660	.5100	-.5120	-.3900	-.0090	.0710	.0490	-.0280
120.000	1.3090		.5790	.1080	-.2430	-.3160	-.4050	-.0630	.2540	-.1220	-.2210	.0410	.0840	.0410	-.1040
135.000	1.3090							-.0760		.0720		.1530		.0170	
150.000	1.3090		.5070	.0470	-.2990	-.3650	-.4450	-.0390	.1330	.2340	-.1980	.1620	.0930	-.0290	-.1290
165.000															
180.000															

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-7X7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT36)

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3090			.0140	-.3230	-.3850	-.2220	-.0380	.0870	.3350	-.2170		.0640		-.1520
180.000	1.3090	1.1240	.4580	-.0130	-.3350	-.3980	-.0410	-.0150	.0680	.3320	-.2420	.0060	.0440	-.0840	-.1930
270.000	1.3090	1.1240													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0550	-.0280	.0130
30.000	.0090	.0230	.0130
60.000	.0280	.0570	-.0480
90.000			-.2390
120.000	.1030	.2180	.0520
135.000	.1370	.2360	.0510
150.000	.1720	.2430	.0390
165.000		.0940	.0400
180.000	.1230		

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3230	1.2090	.6640	.1630	-.1620	-.2690	-.3650	-.3030	.1970	.1940	-.0130	-.2120	-.0340	.0290	.0880
30.000	1.3230		.6450	.1600	-.2060	-.2860	-.3800	-.3140	.2010	.1720	-.0950	-.1430	-.0640	.0240	-.0010
60.000	1.3230		.6030	.1210	-.2310	-.3070	-.4000	-.1880	.3350	.0800	-.3610	-.0260	-.0320	.0320	.0170
90.000	1.3230	1.2060	.5520	.0770	-.2660	-.3450	-.4340	.0120	.5310	-.5300	-.3900	-.0080	.0570	.0150	-.0750
120.000	1.3230		.4980	.0360	-.3000	-.3700	-.4520	-.0240	.2690	-.0690	-.2190	.0880	.0730	-.0150	-.1680
135.000	1.3230							-.0290		.1340		.1410		-.0340	
150.000	1.3230		.4750	.0140	-.3240	-.3890	-.2660	-.0390	.0860	.2400	-.1530	.1070	.0680	-.0620	-.1670
165.000	1.3230			-.0010	-.3280	-.3950	-.0660	-.0280	.0940	.2540	-.0470		.0650		-.1870
180.000	1.3230	1.1990	.4670	-.0080	-.3320	-.3950	-.0470	-.0140	.0970	.2560	-.0480	.0760	.0720	-.0460	-.1930
270.000	1.3230	1.2120													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0400	-.0520	-.0120
30.000	-.0490	-.0330	-.0320
60.000	.0440	-.0060	-.0500
90.000			-.1670
120.000	.0630	.1050	-.0640
135.000	.0930	.0890	-.0550
150.000	.1130	.0410	-.0740

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBHT36)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1680	-.0980
180.000	.1360		

MACH (1) = 1.098 BETAT (4) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3120	1.2720	.6520	.1770	-.1820	-.2650	-.3650	-.3080	.2000	.1690	-.0300	-.2140	-.1020	-.0350	.0520
30.000	1.3120		.5780	.1060	-.2480	-.3200	-.4130	-.3490	.1750	.1740	-.0730	-.2100	-.1090	-.0210	-.0130
60.000	1.3120		.5090	.0380	-.2960	-.3660	-.4510	-.0140	.1650	.1460	-.2960	-.0690	-.0910	.0060	.0050
90.000	1.3120	1.1170	.4590	-.0090	-.3270	-.3980	-.4780	-.0330	.5770	-.5090	-.3590	-.0410	.0070	-.0200	-.1180
120.000	1.3120		.4160	-.0330	-.3450	-.4110	-.2400	-.0420	.1790	.0020	-.2470	.0700	.0520	-.0690	-.2130
135.000	1.3120							-.0990		.1800		.0490		-.0800	
150.000	1.3120		.4280	-.0250	-.3490	-.4120	-.0660	-.0310	.0760	.2090	-.1490	.0250	.0260	-.1130	-.2320
165.000	1.3120			-.0210	-.3380	-.4080	-.0410	-.0170	.0650	.2190	-.2050		.0240		-.2390
180.000	1.3120	1.1320	.4800	-.0120	-.3320	-.3960	-.0640	-.0190	.0590	.3350	-.3110	.0040	.0390	-.0870	-.1960
270.000	1.3120	1.2820													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0480	-.0330	.0130
30.000	-.0460	-.0240	-.0210
60.000	.0420	.0180	-.0550
90.000			-.1270
120.000	.0740	.0630	-.1010
135.000	.0950	.0580	-.1050
150.000	.0980	-.0020	-.1270
165.000		-.1650	-.1620
180.000	.1260		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7X7 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT36)

MACH (1) = 1.100 BETAT (5) = 8.260

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.2700	1.2320	.6270	.1570	-.1990	-.2800	-.3820	-.3170	.1220	.0790	-.0910	-.1620	-.1320	-.1020	-.0400
30.000	1.2700		.5010	.0470	-.3020	-.3680	-.4590	-.3170	.1200	.1360	-.0910	-.2250	-.1470	-.0780	-.0730
60.000	1.2700		.4020	-.0410	-.3540	-.4220	-.2040	-.0590	.0280	.1590	-.1790	-.1590	-.1350	-.0540	-.0440
90.000	1.2700	1.0030	.3620	-.0870	-.3810	-.4460	-.1040	-.0640	.5050	-.4740	-.1830	-.2140	-.0210	-.0660	-.1480
120.000	1.2700		.3390	-.0960	-.3870	-.4470	-.0890	-.0600	.0610	.0780	-.0950	-.0760	.0240	-.1060	-.2700
135.000	1.2700							-.0570		.1290		-.519.		-.1340	
150.000	1.2700		.3630	-.0750	-.3820	-.4410	-.0550	-.0440	.0510	.2290	-.2670	-.0240	-.0160	-.1680	-.3090
165.000	1.2700			-.0580	-.3720	-.4340	-.0590	-.0540	.0350	.2430	-.4110		-.0450		-.3930
180.000	1.2700	1.0910	.4250	-.0320	-.3530	-.4160	-.2020	-.0740	.0740	.3760	-.3560	-.2330	.0030	-.1930	-.2940
270.000	1.2700	1.3170													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0710	-.0110	-.0700
30.000	-.0450	-.0130	-.0700
60.000	.0380	.0240	-.0710
90.000			-.1420
120.000	.0770	.0410	-.1420
135.000	.0770	-.0060	-.1860
150.000	.0750	-.1900	-.2090
165.000		-.2220	-.2160
180.000	.0530		

MACH (2) = 1.248 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.3480	1.3190	.6840	.2310	-.1070	-.1840	-.2810	-.2410	-.1380	.1340	.0140	-.1390	-.1170	-.1030	-.0820
30.000	1.3480		.7880	.3170	-.0320	-.1110	-.2190	-.1720	.1520	.0750	-.1420	-.1180	-.0040	-.0270	-.0680
60.000	1.3480		.8430	.3700	.0110	-.0750	-.1800	-.1350	.3880	.1100	-.3630	-.0470	.0410	.0480	.0110
90.000	1.3480	1.3900	.8130	.3430	-.0130	-.1030	-.2000	-.1610	.5400	-.3110	-.3820	-.0750	.0550	.0870	.0130
120.000	1.3480		.7110	.2550	-.0920	-.1710	-.2570	-.2200	.1700	-.1210	-.1170	-.0800	.0290	.1030	.0130
135.000	1.3480							-.2620		-.0380		-.0620		.0910	
150.000	1.3480		.5870	.1500	-.1760	-.2520	-.3280	-.2990	.0840	.2440	.0130	-.0800	.1220	.0510	.0010
165.000	1.3480			.0910	-.2160	-.2880	-.3600	-.3270	.0610	.3740	.0110		-.0100		-.0500
180.000	1.3480	1.1390	.4840	.0480	-.2470	-.3140	-.3890	-.3470	.0430	.3850	.0020	-.2050	-.1930	-.1630	-.1440
270.000	1.3480	1.0770													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBNT38)

MACH (2) = 1.248 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0860	.0060	-.0230
30.000	-.0730	.0190	.0260
60.000	.0150	.0300	.0220
90.000			-.3030
120.000	.1000	.3540	.2190
135.000	.1000	.3950	.2040
150.000	.0320	.4220	.1880
165.000		.4340	.2120
180.000	-.2510		

MACH (2) = 1.249 BETAT (2) = -4.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3980	1.3670	.7180	.2530	-.0860	-.1640	-.2600	-.2220	-.1610	.2230	.0840	-.1040	-.1460	-.0880	-.0230
30.000	1.3990		.7590	.2850	-.0620	-.1370	-.2380	-.1930	.1010	.1500	.0040	-.1330	-.0900	-.0330	-.0630
60.000	1.3980		.7600	.2850	-.0580	-.1420	-.2360	-.1930	.3080	.1420	-.3340	-.0400	.0200	.0110	-.0190
90.000	1.3980	1.3580	.7170	.2480	-.0880	-.1750	-.2610	-.2230	.5240	-.3190	-.4250	-.0570	.0510	.0760	-.0150
120.000	1.3980		.6420	.1840	-.1410	-.2200	-.2980	-.2530	.1520	-.0470	-.1450	-.0860	.0450	.0710	-.0170
135.000	1.3980							-.2880		.1440		-.1770		.0630	
150.000	1.3980		.5680	.1200	-.1920	-.2640	-.3320	-.3000	.1200	.2880	-.0250	-.0930	.1030	.0760	-.0490
165.000	1.3980			.0910	-.2130	-.2810	-.3520	-.3140	.0790	.3410	-.0400		-.0300		-.0810
180.000	1.3980	1.2010	.5140	.0640	-.2250	-.2930	-.3640	-.2090	.0530	.3040	-.1060	-.1240	-.1710	.1070	-.1210
270.000	1.3980	1.2020													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0350	.0010	-.0110
30.000	-.0350	.0250	.0140
60.000	.0270	.0360	-.0090
90.000			-.2330
120.000	.0010	.2490	.0720
135.000	.0020	.2740	.1240
150.000	-.0320	.2790	.1340
165.000		.1780	.1310
180.000	-.1490		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBNT36)

MACH (2) = 1.249 BETAT (3) = .010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4030	1.3860	.7170	.2540	-.0860	-.1650	-.2620	-.2230	-.1480	.2420	.1030	-.0920	-.1560	-.0530	-.0070
30.000	1.4030		.7020	.2410	-.1050	-.1770	-.2740	-.2310	.0920	.1740	.0740	-.1360	-.0770	-.0610	-.0600
60.000	1.4030		.6600	.1980	-.1290	-.2090	-.2920	-.2520	.1970	.1790	-.2820	-.0440	-.0160	-.0420	-.0250
90.000	1.4030	1.2820	.6120	.1500	-.1610	-.2410	-.3210	-.2820	.5590	-.3220	-.4210	-.0300	.0050	.0270	-.0270
120.000	1.4030		.5580	.1150	-.1930	-.2670	-.3400	-.3000	.1650	.0110	-.2570	-.0310	.0240	.0630	-.0880
135.000	1.4030							-.2520		.1590		-.1020		.0650	
150.000	1.4030		.5290	.0900	-.2150	-.2850	-.3540	-.0680	.0690	.1880	-.0050	-.1320	.0040	.0640	-.0890
165.000	1.4030			.0800	-.2210	-.2880	-.3550	-.0380	.0770	.2020	.0210		-.0680		-.0880
180.000	1.4030	1.2100	.5220	.0720	-.2210	-.2911	-.3610	-.1150	.0600	.1950	.0020	-.0980	-.2290	.1220	-.0870
270.000	1.4030	1.2850													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0020	.0100	-.0140
30.000	-.0020	.0170	-.0140
60.000	.0680	.0310	-.0130
90.000			-.1130
120.000	-.0100	.1330	-.0230
135.000	-.0090	.1200	.0200
150.000	-.0280	.0950	-.0040
165.000		-.0330	-.0610
180.000	-.0470		

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4010	1.3540	.7080	.2510	-.0920	-.1700	-.2660	-.2240	-.1540	.2210	.0750	-.1110	-.1380	-.0760	-.0180
30.000	1.4010		.6400	.1820	-.1450	-.2150	-.3080	-.2670	.0890	.2020	.0770	-.1610	-.1250	-.0770	-.0580
60.000	1.4010		.5660	.1160	-.1880	-.2630	-.3440	-.3050	.0970	.2390	-.2210	-.0350	-.0690	-.0720	-.0330
90.000	1.4010	1.1990	.5180	.0670	-.2210	-.2950	-.3700	-.3260	.5630	-.3200	-.3950	-.0280	-.0810	.0010	-.0380
120.000	1.4010		.4820	.0480	-.2370	-.3060	-.3720	-.2980	.0650	.0840	-.2880	-.0240	.0060	.0440	-.1260
135.000	1.4010							-.1200		.1940		-.1040		.0430	
150.000	1.4010		.4880	.0530	-.2400	-.3070	-.3720	-.0560	.0540	.1700	-.0140	-.2100	.0050	.0260	-.1500
165.000	1.4010			.0590	-.2370	-.3030	-.3710	-.0380	.0670	.1950	-.0980		-.1630		-.1620
180.000	1.4010	1.2150	.5210	.0670	-.2300	-.2970	-.3710	-.2170	.0440	.3070	-.1020	-.1340	-.1990	.0890	-.1240
270.000	1.4010	1.3630													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT36)

AMES 11-7D7 IA9 OBA + S3 + T9 EXTERNAL TANK

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0290	-.0030	-.0110
30.000	-.0320	-.0070	-.0310
60.000	.0850	-.0080	-.0310
90.000			-.0980
120.000	.0130	.0450	-.0970
135.000	.0130	.0130	-.0540
150.000	.0160	-.0630	-.1080
165.000		-.2270	-.1540
180.000	-.1470		

MACH (2) = 1.246 BETAT (5) = 6.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.9027	.5565	.6372
PHI															
.000	1.3550	1.3080	.6790	.2240	-.1110	-.1860	-.2820	-.2440	-.1120	.1190	.0010	-.1450	-.1110	-.1060	-.0670
30.000	1.3550		.5560	.1140	-.2030	-.2700	-.3570	-.3190	.0840	.1610	.0020	-.1820	-.1370	-.1160	-.0820
60.000	1.3550		.4600	.0240	-.2650	-.3280	-.4010	-.3660	.0170	.3230	-.1390	-.0340	-.1220	-.1240	-.0950
90.000	1.3550	1.0790	.4150	-.0170	-.2870	-.3530	-.4170	-.1060	.5540	-.3080	-.2870	-.0480	-.2550	-.0290	-.0980
120.000	1.3550		.3910	-.0280	-.2930	-.3540	-.4130	-.0810	.0260	.1400	-.2050	-.1120	-.0840	.0100	-.1610
135.000	1.3550							-.0660		.1490		-.1450		-.0070	
150.000	1.3550		.4170	-.0050	-.2840	-.3480	-.4110	-.0570	.0640	.2590	-.1050	-.2680	-.0910	-.0340	-.1810
165.000	1.3550			.0120	-.2740	-.3380	-.4010	-.3110	.0810	.2550	-.2050		-.2310		-.2420
180.000	1.3550	1.1660	.4810	.0420	-.2530	-.3200	-.3930	-.3480	.0530	.3710	-.1680	-.2300	-.1940	-.1160	-.1370
270.000	1.3550	1.3950													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0710	-.0090	-.0250
30.000	.0380	-.0130	-.0460
60.000	.0890	-.0210	-.0450
90.000			-.1220
120.000	.0460	.0800	-.1200
135.000	.0460	.0440	-.1420
150.000	.0330	-.1040	-.1820
165.000		-.1990	-.1960
180.000	-.2460		

AMES 11-7D7 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT37) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .900
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.100 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2550	1.2660	.6750	.2080	-.1630	-.2430	-.3460	-.2810	.1340	.1040	-.0580	-.1230	-.1100	-.0960	-.0450
30.000	1.2550		.7820	.2960	-.0780	-.1700	-.2770	-.2020	.1990	.0820	-.1780	.0030	-.0260	-.0090	-.0650
60.000	1.2550		.8130	.3270	-.0570	-.1410	-.2520	.1030	.3950	.0370	-.3760	.0330	.0440	.0550	.0300
90.000	1.2550	1.2990	.7470	.2630	-.1090	-.1950	-.3040	.2310	.4640	-.5270	-.3740	-.0870	.0620	.0920	.0310
120.000	1.2550		.6110	.1460	-.2170	-.2840	-.3810	-.0200	.1200	-.2740	-.3200	-.1120	.0810	.1100	-.0150
135.000	1.2550							-.0920		-.1050		-.0540		.0770	
150.000	1.2550		.4770	.0310	-.3140	-.3850	-.4650	-.0550	.0320	.1150	-.0530	-.0340	.0490	.0100	-.0670
165.000	1.2550			-.0240	-.3570	-.4190	-.1880	-.0620	.0370	.2570	-.1180		-.0410		-.1540
180.000	1.2550	1.0360	.3790	-.0730	-.3740	-.4410	-.0700	-.0520	.0200	.2730	-.2110	-.1010	-.0630	-.1430	-.2810
270.000	1.2550	.9930													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0620	.0280	-.0470
30.000	.0330	.1120	.0120
60.000	.0720	.1560	.0120
90.000			-.1650
120.000	.1920	.3230	.0660
135.000	.2170	.3660	.1120
150.000	.2270	.3960	.0950
165.000		.3970	.1160
180.000	.0670		

MACH (1) = 1.100 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2940	1.3080	.7110	.2290	-.1450	-.2290	-.3330	-.2680	.2170	.1910	.0010	-.1640	-.0670	-.0380	.0600
30.000	1.2940		.7450	.2540	-.1240	-.2060	-.3100	-.2400	.2500	.1630	-.1010	-.0370	-.0490	.0100	.0110
60.000	1.2940		.7200	.2350	-.1360	-.2200	-.3220	-.2220	.4090	.0770	-.3370	.0020	-.0110	.0310	.0460
90.000	1.2940	1.2600	.6470	.1640	-.1930	-.2760	-.3740	.0790	.4740	-.5490	-.3660	-.1040	.0420	.0710	-.0120
120.000	1.2940		.5410	.0750	-.2700	-.3410	-.4270	-.0570	.1720	-.1970	-.3260	-.0700	.0770	.0680	-.0710
135.000	1.2940							-.0310		-.0100		.0410		.0380	
150.000	1.2940		.4560	.0060	-.3300	-.3960	-.3490	-.0500	.0670	.1730	-.1300	.0790	.0810	-.0050	-.0890

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT37)

AMES 11-707 IA9 O2A + S3 + T9 EXTERNAL TANK

MACH (1) = 1.100 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.2940			-.0310	-.3530	-.4140	-.0770	-.0500	.0450	.2660	-.1510		.0510		-.1050
180.000	1.2940	1.0700	.4050	-.0580	-.3630	-.4260	-.0400	-.0330	.0460	.2380	-.1610	-.0300	.0300	-.0510	-.1560
270.000	1.2940	1.1080													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0320	-.0080	.0250
30.000	-.0030	.0450	.0270
60.000	.0700	.0800	-.0050
90.000			-.1980
120.000	.1200	.2440	-.0030
135.000	.1460	.2600	.0520
150.000	.1720	.2610	.0500
165.000		.1400	.0530
180.000	.1220		

MACH (1) = 1.098 BETAT (3) = .010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3050	1.3130	.7150	.2310	-.1410	-.2310	-.3330	-.2670	.2280	.2140	.0160	-.1640	-.0400	-.0030	.0720
30.000	1.3050		.6870	.2070	-.1720	.2540	-.3530	-.2860	.2410	.1980	-.0710	-.0930	-.0520	.0110	.0010
60.000	1.3050		.6200	.1420	-.2170	-.2960	-.3910	-.1720	.3630	.1220	-.2890	-.0360	-.0420	.0290	.0290
90.000	1.3050	1.1900	.5410	.0690	-.2740	-.3520	-.4430	-.0030	.4940	-.5720	-.3610	-.1320	.0270	.0210	-.0720
120.000	1.3050		.4660	.0070	-.3240	-.3920	-.4710	-.0360	.2070	-.1400	-.2870	.0000	.0720	.0070	-.1390
135.000	1.3050							-.0560		.0760		.1030		-.0140	
150.000	1.3050		.4260	-.0270	-.3500	-.4170	-.1410	-.0760	.0540	.2040	-.1270	.0830	.0570	-.0430	-.1380
165.000	1.3050			-.0440	-.3580	-.4210	-.0670	-.0520	.0530	.2320	-.0320		.0580		-.1370
180.000	1.3050	1.0830	.4140	-.0550	-.3600	-.4220	-.0400	-.0350	.0670	.2320	.0220	.0690	.0680	-.0290	-.1240
270.000	1.3050	1.1970													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0220	-.0340	.0230
30.000	.0030	-.0190	.0000
60.000	.0650	.0160	-.0230
90.000			-.1580
120.000	.0650	.1390	-.0520
135.000	.0940	.1240	-.0350
150.000	.1130	.0620	-.0480

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT37)

MACH (1) = 1.098 BETAT (3) = .010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1480	-.0680
180.000	.1350		

MACH (1) = 1.100 BETAT (4) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2338	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2950	1.2940	.6940	.2200	-.1490	-.2930	-.3390	-.2730	.2130	.1610	-.0080	-.1680	-.0760	-.0310	.0350
30.000	1.2950		.6110	.1360	-.2270	-.3000	-.4000	-.3350	.2080	.1910	-.0680	-.1750	-.0990	-.0400	-.0230
60.000	1.2950		.5150	.0460	-.2880	-.3590	-.4490	-.0090	.2030	.1800	-.2240	-.1090	-.0870	-.0130	.0130
90.000	1.2950	1.1030	.4400	-.0210	-.3400	-.4080	-.4800	-.0470	.5480	-.5620	-.3770	-.1210	-.0010	-.0230	-.1080
120.000	1.2950		.3910	-.0600	-.3690	-.4270	-.2720	-.0580	.1560	-.0650	-.2590	.0610	.0550	-.0530	-.1960
135.000	1.2950							-.0560		.1540		.0590		-.0660	
150.000	1.2950		.3860	-.0650	-.3750	-.4340	-.0850	-.0550	.0470	.1830	-.1120	.0070	.0300	-.0970	-.2040
165.000	1.2950			-.0650	-.3720	-.4330	-.0550	-.0410	.0610	.2110	-.0440		.0250		-.1930
180.000	1.2950	1.0800	.4090	-.0550	-.3690	-.4280	-.0400	-.0330	.0390	.2580	-.0390	-.0500	.0340	-.0620	-.1730
270.000	1.2950	1.2670													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0310	-.0240	.0130
30.000	-.0300	-.0250	-.0140
60.000	.0490	.0240	-.0520
90.000			-.1270
120.000	.0680	.0680	-.0870
135.000	.0680	.0560	-.0960
150.000	.0920	-.0180	-.1250
165.000		-.1410	-.1470
180.000	.1110		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-70? IA9 OEA + S3 + T9 EXTERNAL TANK (RBHT37)

MACH (1) = 1.099 BETAT (5) = 8.280

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2530	1.2510	.6720	.2040	-.1620	-.2500	-.3460	-.2800	.1300	.0950	-.0650	-.1150	-.1140	-.0990	-.0350
30.000	1.2530		.5300	.0720	-.2810	-.3530	-.4410	-.3830	.1380	.1680	-.0640	-.2130	-.1500	-.1180	-.0760
60.000	1.2530		.4080	-.0430	-.3560	-.4210	-.4660	-.0810	.0980	.1950	-.1210	-.1710	-.1340	-.0590	-.0030
90.000	1.2530	.9880	.3470	-.0950	-.3980	-.4540	-.0920	-.0670	.4350	-.5290	-.3900	-.2610	-.0480	-.0900	-.1640
120.000	1.2530		.3100	-.1200	-.4080	-.4550	-.0910	-.0570	.0140	.0290	-.1330	-.0550	.0150	-.1040	-.2520
135.000	1.2530							-.0580		.1000		-.0340		-.1280	
150.000	1.2530		.3270	-.1070	-.4060	-.4470	-.0700	-.0520	.0260	.2130	-.2170	-.0780	-.0170	-.1610	-.2650
165.000	1.2530			-.0940	-.3990	-.4550	-.0640	-.0500	.0270	.1920	-.3460		-.0500		-.3520
180.000	1.2530	1.0370	.3790	-.0690	-.3890	-.4420	-.0980	-.0630	.0260	.3120	-.3320	-.2830	-.0140	-.1840	-.2740
270.000	1.2530	1.3020													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0490	.0000	-.0590
30.000	-.0410	-.0240	-.0590
60.000	.0620	.0260	-.0790
90.000			-.1420
120.000	.0910	.0380	-.1240
135.000	.1020	-.0170	-.1840
150.000	.1110	-.1920	-.2040
165.000		-.2350	-.2050
180.000	.0540		

MACH (2) = 1.247 BETAT (1) = -8.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3300	1.3380	.7310	.2740	-.0690	-.1490	-.2490	-.2090	-.1020	.1280	.0380	-.1040	-.0870	-.0820	-.0570
30.000	1.3300		.8360	.3670	.0030	-.0760	-.1850	-.1380	.1940	.1090	-.1070	-.0620	.0130	-.0080	-.0470
60.000	1.3300		.6660	.3940	.0290	-.0550	-.1610	-.1180	.4300	.1540	-.3040	-.0370	.0480	.0480	.0290
90.000	1.3300	1.3780	.8050	.3380	-.0190	-.1070	-.2050	-.1620	.5220	-.3280	-.3050	-.1070	.0110	.1010	.0580
120.000	1.3300		.6690	.2220	-.1180	-.1950	-.2780	-.2440	.1050	-.1950	-.2560	-.1420	.0000	.1050	.0550
135.000	1.3300							-.2880		-.0990		-.1090		.0890	
150.000	1.3300		.5350	.1050	-.2110	-.2820	-.3570	-.3220	.0340	.1300	.1150	-.1170	.0170	.0460	.0180
165.000	1.3300			.0490	-.2490	-.3160	-.3850	-.3450	.0230	.2930	.0360		-.0260		.0330
180.000	1.3300	1.1080	.4370	.0110	-.2730	-.3390	-.4100	-.2230	.0110	.2830	.0110	-.1390	-.2050	-.2230	-.0870
270.000	1.3300	1.0640													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT37)

MACH (2) = 1.247 BETAT (1) = -8.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0680	.0290	.0040
30.000	-.0090	.0490	.0640
60.000	.0570	.0690	.0630
90.000			-.2670
120.000	.1370	.3550	.2200
135.000	.1370	.3980	.2040
150.000	.1490	.4200	.1770
165.000		.4230	.2000
180.000	-.0650		

MACH (2) = 1.248 BETAT (2) = -4.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3750	1.3800	.7610	.2940	-.0900	-.1300	-.2330	-.1930	-.1260	.2480	.1060	-.0720	-.1030	-.0450	-.0150
30.000	1.3750		.7990	.3250	-.0280	-.1090	-.2130	-.1660	.1420	.1750	-.0110	-.0890	-.0140	-.0270	-.0330
60.000	1.3750		.7760	.3150	-.0450	-.1290	-.2220	-.1810	.3470	.1850	-.2730	-.0320	.0310	.0080	-.0040
90.000	1.3750	1.3350	.7000	.2390	-.0960	-.1810	-.2700	-.2340	.5080	-.3430	-.3550	-.1310	.0050	.0710	.0220
120.000	1.3750		.5990	.1530	-.1660	-.2430	-.3210	-.2860	.1010	-.1250	-.1670	-.1480	.0200	.0850	-.0060
135.000	1.3750							-.3120		.0080		-.2070		.0650	
150.000	1.3750		.5150	.0810	-.2240	-.2940	-.3660	-.3270	.0840	.2300	-.0220	-.1090	-.0180	.0730	-.0230
165.000	1.3750			.0480	-.2410	-.3110	-.3770	-.3200	.0540	.2800	-.0460		-.0940		-.0450
180.000	1.3750	1.1430	.4610	.0270	-.2510	-.3170	-.3880	-.0560	.0310	.2480	-.0450	-.0920	-.2080	.1150	-.0620
270.000	1.3750	1.1800													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0370	.0190	.0110
30.000	-.0210	.0450	.0390
60.000	.0700	.0520	.0310
90.000			-.2060
120.000	.0400	.2720	.1490
135.000	.0400	.2930	.1420
150.000	.0120	.2920	.1490
165.000		.1610	.1600
180.000	-.0980		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 EXTERNAL TANK (RBNT37)

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3890	1.3900	.7710	.3040	-.0460	-.1280	-.2280	-.1900	-.1240	.2720	.1250	-.0610	-.1100	-.0360	-.0060
30.000	1.3890		.7460	.2870	-.0700	-.1470	-.2470	-.2050	.0920	.2130	.0990	-.1010	-.0610	-.0480	-.0600
60.000	1.3890		.6800	.2210	-.1140	-.1950	-.2810	-.2430	.2150	.2290	-.2190	-.0230	-.0190	-.0360	-.0220
90.000	1.3890	1.2710	.6040	.1490	-.1670	-.2470	-.3270	-.2870	.5260	-.3470	-.3940	-.1780	-.0550	.0250	-.0210
120.000	1.3890		.5320	.0900	-.2130	-.2860	-.3560	-.3150	.1280	-.0580	-.2230	-.1170	.0310	.0780	-.0600
135.000	1.3890							-.2800		.1120		-.1730		.0800	
150.000	1.3890		.4920	.0600	-.2390	-.3090	-.3720	-.0640	.0330	.1610	-.0040	-.1230	.0060	.0740	-.0600
165.000	1.3890			.0450	-.2480	-.3120	-.3760	-.0170	.0390	.1920	.0550		-.0880		-.0460
180.000	1.3890	1.1630	.4790	.0370	-.2480	-.3140	-.3790	-.0290	.0340	.1880	.0480	-.0780	-.1770	.1240	-.0460
270.000	1.3890	1.2780													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0210	.0200	.0070
30.000	-.0210	.0270	.0070
60.000	.0800	.0350	.0060
90.000			-.0840
120.000	.0210	.1490	.0350
135.000	.0210	.1330	.0440
150.000	.0650	.1000	.0260
165.000		-.0450	-.0210
180.000	.0530		

MACH (2) = 1.252 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3760	1.3700	.7520	.2930	-.0530	-.1290	-.2330	-.1910	-.1280	.2470	.1060	-.0750	-.0980	-.0480	-.0190
30.000	1.3760		.6660	.2160	-.1170	-.1880	-.2820	-.2420	.0600	.2360	.0710	-.1250	-.1010	-.0680	-.0860
60.000	1.3760		.5720	.1290	-.1790	-.2510	-.3330	-.2950	.1150	.3030	-.1520	-.0250	-.0670	-.0700	-.0300
90.000	1.3760	1.1780	.4990	.0590	-.2270	-.2990	-.3720	-.3330	.5390	-.3400	-.3890	-.2050	-.1370	-.0200	-.0370
120.000	1.3760		.4490	.0210	-.2540	-.3180	-.3830	-.3290	.0550	.0100	-.1770	-.0680	.0110	.0590	-.0960
135.000	1.3760							-.1390		.1770		-.1680		.0590	
150.000	1.3760		.4420	.0190	-.2590	-.3240	-.3840	-.0590	.0240	.1530	.0100	-.1790	-.0450	.0590	-.0970
165.000	1.3760			.0190	-.2590	-.3240	-.3860	-.0350	.0370	.2030	-.0180		-.2140		-.1110
180.000	1.3760	1.1520	.4670	.0250	-.2560	-.3190	-.3870	-.0380	.0250	.2010	-.0160	-.0780	-.2260	.1160	-.0730
270.000	1.3760	1.3410													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S5 + T9 EXTERNAL TANK (RBNT37)

MACH (2) = 1.252 BETAT (4) = 4.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0350	.0110	.0100
30.000	-.0350	.0060	-.0120
60.000	.0900	.0110	-.0360
90.000			-.0820
120.000	.0390	.0760	-.0130
135.000	.0410	.0530	-.0220
150.000	.0670	-.0530	-.0530
165.000		-.2500	-.1480
180.000	-.0950		

MACH (2) = 1.247 BETAT (5) = 9.230

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.174	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.9027	.5565	.6372
PHI															
.000	1.3430	1.3360	.7330	.2750	-.0630	-.1440	-.2460	-.2100	-.0920	.1270	.0290	-.1060	-.0840	-.0820	-.0540
30.000	1.3430		.5920	.1530	-.1750	-.2400	-.3360	-.3000	.0810	.1950	.0290	-.1410	-.1200	-.1090	-.1300
60.000	1.3430		.4700	.0400	-.2500	-.3220	-.3980	-.3810	.0530	.3540	-.0320	-.0410	-.1110	-.1280	-.0590
90.000	1.3430	1.0680	.4020	-.0160	-.2880	-.3600	-.4220	-.0870	.4980	-.3460	-.2990	-.1710	-.2920	-.0630	-.1230
120.000	1.3430		.3720	-.0370	-.2950	-.3630	-.4180	-.0850	.0110	.0590	-.0770	-.0620	-.0670	.0170	-.1330
135.000	1.3430							-.0770		.1140		-.1270		.0150	
150.000	1.3430		.3840	-.0250	-.2930	-.3610	-.4190	-.0830	.0550	.2260	-.0940	-.2480	-.1520	-.0020	-.1360
165.000	1.3430			-.0150	-.2870	-.3580	-.4180	-.1230	.0130	.2180	-.1800		-.3140		-.1680
180.000	1.3430	1.1170	.4340	.0120	-.2750	-.3450	-.4120	-.1320	.0000	.2760	-.1580	-.1570	-.2010	-.1980	-.0900
270.000	1.3430	1.3860													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0680	.0120	.0000
30.000	-.0190	-.0100	-.0330
60.000	.0960	-.0010	-.0410
90.000			-.0960
120.000	.0660	.0560	-.0640
135.000	.0670	.0100	-.1550
150.000	.0720	-.1370	-.1870
165.000		-.2190	-.2030
180.000	-.0870		

DATE 24 SEP 75 TABULATED PRESSURE DATA - IASA (RBNT36) (27 APR 73)

AMES 11-707 IA9 O2A + S3 + T9 EXTERNAL TANK

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	28.5300 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHAT =	8.000	ORBINC =	.500
RUDDER =	-15.000	ELEVON =	.000
RUDFLR =	.000		

MACH (1) = 1.099 BETAT (1) = -8.170

SECTION (1)EXTERNAL TANK — DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2290	1.2820	.7210	.2540	-.1190	-.2130	-.3150	-.2440	.1350	.1150	-.0330	-.0650	-.0750	-.0820	-.0370
30.000	1.2290		.6250	.3400	-.0440	-.1370	-.2430	-.1630	.2290	.1100	-.1410	.0360	-.0080	.0060	-.0320
60.000	1.2290		.8290	.3490	-.0400	-.1230	-.2390	.1580	.4260	.0740	-.3070	.0530	.0250	.0600	.0600
90.000	1.2290	1.2750	.7260	.2510	-.1200	-.2070	-.3110	.2420	.4310	-.5520	-.3250	-.1560	-.0050	.0890	.0590
120.000	1.2290		.5640	.1090	-.2480	-.3170	-.4100	-.0430	.0480	-.3480	-.3400	-.1540	.0540	.1300	.0270
135.000	1.2290							-.0560		-.2220		-.0990		.0820	
150.000	1.2290		.4190	-.0170	-.3560	-.4150	-.4140	-.0660	-.0110	.0640	-.0350	-.0240	.0310	.0330	-.0260
165.000	1.2290			-.0730	-.3900	-.4520	-.0840	.0870	.0070	.2130	-.0970		-.1010		-.0950
180.000	1.2290	.9630	.3330	-.1120	-.4060	-.4640	-.0060	-.0680	.0010	.1950	-.1430	-.1450	-.0420	-.1280	-.2340
270.000	1.2290	.9700													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0430	.0250	-.0380
30.000	.0270	.1220	.0290
60.000	.0990	.1760	.0300
90.000			-.1610
120.000	.2190	.3520	.1200
135.000	.2450	.3970	.1260
150.000	.2440	.4220	.1020
165.000		.4060	.1030
180.000	.0650		

MACH (1) = 1.099 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK — DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2690	1.3200	.7560	.2750	-.1080	-.1940	-.2990	-.2320	.2340	.2100	.0280	-.1080	-.0360	-.0360	.0600
30.000	1.2690		.7840	.2960	-.0920	-.1730	-.2810	-.2080	.2760	.1900	-.0840	-.0020	-.0280	.0040	.0100
60.000	1.2690		.7350	.2330	-.1230	-.2050	-.3090	-.2160	.4330	.1170	-.2650	.0110	-.0150	.0360	.0610
90.000	1.2690	1.2380	.6290	.1540	-.2060	-.2870	-.3830	.0770	.4360	-.5750	-.3460	-.2260	-.0050	.0690	.0170
120.000	1.2690		.4980	.0450	-.3000	-.3700	-.4540	-.0720	.0930	-.2760	-.3290	-.1360	.0600	.0780	-.0320
135.000	1.2690							-.0590		-.0700		-.0500		.0490	
150.000	1.2690		.4020	-.0380	-.3600	-.4280	-.1800	-.0730	.0360	.1220	-.0950	-.0070	.0770	.0190	-.0510

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 O2A + S3 + T9 EXTERNAL TANK (RBNT38)

MACH (1) = 1.099 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
165.000	1.2690			-.0770	-.3850	-.4400	-.0790	-.0660	.0300	.2100	-.0420		.0550		-.0730
180.000	1.2690	1.0120	.3550	-.0990	-.3940	-.4480	-.0610	-.0510	.0320	.1980	-.0350	-.0520	.0390	-.0380	-.1260
270.000	1.2690	1.0850													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0120	.0140	.0170
30.000	.0800	.0850	.0250
60.000	.0930	.0990	.0020
90.000			-.1660
120.000	.1490	.2700	.0280
135.000	.1670	.2830	.0370
150.000	.1790	.2820	.0190
165.000		.2090	.0370
180.000	.1090		

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.2840	1.3280	.7630	.2810	-.1000	-.1930	-.2990	-.2320	.2260	.2310	.0360	-.1060	-.0100	-.0040	.0830
30.000	1.2840		.7270	.2420	-.1420	-.2240	-.3280	-.2560	.2530	.2220	-.0570	-.0460	-.0280	.0030	.0150
60.000	1.2840		.6310	.1550	-.2040	-.2880	-.3640	-.2240	.3650	.1590	-.2280	-.0350	-.0260	.0270	.0410
90.000	1.2840	1.1700	.5260	.0590	-.2840	-.3660	-.4510	-.0220	.4480	-.6020	-.3550	-.2730	.0060	.0270	-.0420
120.000	1.2840		.4300	-.0210	-.3470	-.4160	-.4900	-.0790	.1510	-.2120	-.2950	-.1100	.0730	.0240	-.0930
135.000	1.2840							-.0860		.0120		.0060		.0130	
150.000	1.2840		.3810	-.0620	-.3780	-.4420	-.1350	-.0970	.0270	.1660	-.0540	.0060	.0690	-.0160	-.0770
165.000	1.2840			-.0810	-.3840	-.4430	-.0860	-.0830	.0210	.1940	.0030		.0670		-.0890
180.000	1.2840	1.0290	.3660	-.0910	-.3860	-.4430	-.0650	-.0680	.0350	.2010	-.0040	.0360	.0620	.0040	-.0890
270.000	1.2840	1.1770													

X/LT	.7449	.8526	.9290
PHI			
.000	.0030	-.0070	.0230
30.000	.0030	.0010	.0210
60.000	.0780	.0250	-.0310
90.000			-.1450
120.000	.0780	.1610	-.0250
135.000	.0770	.1460	-.0460

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT38)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1050	-.0610
180.000	.1520		

MACH (1) = 1.095 BETAT (4) = 4.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2770	1.3120	.7490	.2710	-.1090	-.1960	-.2990	-.2340	.2290	.2030	.0220	-.1010	-.0410	-.0280	.0560
30.000	1.2770		.6500	.1750	-.1950	-.2730	-.3690	-.3020	.2530	.2190	-.0500	-.1260	-.0800	-.0630	-.0210
60.000	1.2770		.5240	.0580	-.2750	-.3560	-.4420	-.0190	.2560	.1980	-.1310	-.0950	-.0600	-.0300	.0240
90.000	1.2770	1.0830	.4260	-.0310	-.3480	-.4210	-.4740	-.0660	.5050	-.5970	-.4060	-.1670	-.0050	-.0310	-.1020
120.000	1.2770		.3600	-.0840	-.3860	-.4440	-.2120	-.0750	.1030	-.1280	-.2740	.0270	.0550	-.0270	-.1400
135.000	1.2770							-.0740		.1160		.0450		-.0420	
150.000	1.2770		.3450	-.0950	-.3930	-.4520	-.0970	-.0780	.0210	.1610	-.0820	-.0090	.0380	-.0750	-.1620
165.000	1.2770			-.0980	-.3960	-.4470	-.0700	-.0610	.0330	.2070	-.0270		.0320		-.1620
180.000	1.2770	1.0260	.3620	-.0960	-.3920	-.4490	-.0530	-.0510	.0360	.2020	-.0250	-.0680	.0360	-.0450	-.1290
270.000	1.2770	1.2500													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0040	.0040	.0270
30.000	-.0030	-.0120	-.0030
60.000	.0650	.0350	-.0520
90.000			-.1280
120.000	.0670	.0880	-.1260
135.000	.0850	.0610	-.1120
150.000	.0950	-.0040	-.1400
165.000		-.1730	-.1570
180.000	.1110		

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK (RBNT3R)

MACH (1) = 1.097 BETAT (5) = 8.310

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2300	1.2650	.7220	.2570	-.1170	-.2050	-.3070	-.2450	.1340	.1130	-.0340	-.0570	-.0740	-.0800	-.0440
30.000	1.2300		.5630	.1060	-.2900	-.3250	-.4190	-.3630	.1570	.1790	-.0340	-.1520	-.1300	-.1250	-.1100
60.000	1.2300		.4150	-.0330	-.3490	-.4200	-.5040	-.0500	.1060	.2050	-.0690	-.1560	-.1040	-.0830	-.0110
90.000	1.2300	.9630	.3240	-.1130	-.4030	-.4710	-.1480	-.1160	.5050	-.5800	-.5500	-.1960	-.1010	-.1280	-.1720
120.000	1.2300		.2850	-.1360	-.4180	-.4710	-.1140	-.0860	-.0070	-.0610	-.1970	-.0540	.0090	-.0870	-.2090
135.000	1.2300							-.0850		.1110		-.0580		-.1170	
150.000	1.2300		.2890	-.1330	-.4190	-.4740	-.1000	-.0870	-.0050	.0990	-.1170	-.1120	-.0180	-.1350	-.1850
165.000	1.2300			-.1300	-.4190	-.4600	-.0900	-.0860	-.0030	.1590	-.0890		-.0120		-.2670
180.000	1.2300	.9780	.3290	-.1100	-.4130	-.4540	-.0680	-.0690	.0060	.1770	-.2520	-.1920	.0000	-.1390	-.2100
270.000	1.2300	1.2510													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0220	.0310	-.0400
30.000	-.0210	-.0150	-.0620
60.000	.0750	.0330	-.0620
90.000			-.1420
120.000	.0850	.0380	-.1420
135.000	.1150	-.0180	-.1880
150.000	.1090	-.1790	-.1900
165.000		-.2330	-.1910
180.000	.0680		

MACH (2) = 1.245 BETAT (1) = -8.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3140	1.3620	.7820	.3220	-.0320	-.1160	-.2200	-.1730	-.0670	.1410	.0620	-.0640	-.0460	-.0490	-.0380
30.000	1.3140		.6870	.4150	.0450	-.0420	-.1540	-.1010	.2290	.1580	-.0450	-.0250	.0440	.0220	-.0330
60.000	1.3140		.8910	.4180	.0460	-.0380	-.1460	-.0990	.4720	.1950	-.2410	.0140	.0720	.0600	.0320
90.000	1.3140	1.3550	.7890	.3250	-.0300	-.1170	-.2120	-.1730	.5000	-.3550	-.3270	-.1810	-.0790	.0570	.0690
120.000	1.3140		.6280	.1840	-.1460	-.2240	-.3060	-.2720	.0370	-.2890	-.3790	-.1850	-.0010	.1150	.0700
135.000	1.3140							-.3210		-.1730		-.1550		.0670	
150.000	1.3140		.4800	.0560	-.2460	-.3140	-.3860	-.3550	-.0210	-.0660	.1000	-.1240	.0190	.0470	.0700
165.000	1.3140			.0060	-.2800	-.3450	-.4090	-.2580	-.0160	.2010	.0330		-.0170		.0490
180.000	1.3140	1.0380	.3680	-.0280	-.3020	-.3630	-.4250	-.0720	-.0320	.2110	.0270	-.1210	-.2100	-.2440	-.0680
270.000	1.3140	1.0490													

X/LT	.7449	.8526	.9290

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBMT38)

MACH (2) = 1.245 BETAT (1) = -8.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0930	.0480	.0310
30.000	.0230	.0480	.0950
60.000	.1040	.0840	.0780
90.000			-.2850
120.000	.1660	.3660	.2180
135.000	.1930	.4070	.2140
150.000	.1930	.4360	.1890
165.000		.4370	.2100
180.000	.0460		

MACH (2) = 1.251 BETAT (2) = -4.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3500	1.3940	.8070	.3420	-.0080	-.0940	-.1990	-.1590	-.0980	.2690	.1390	-.0340	-.0540	-.0160	.0000
30.000	1.3500		.8360	.3650	.0070	-.0740	-.1820	-.1350	.1690	.2030	.0690	-.0440	.0160	-.0030	-.0440
60.000	1.3500		.7890	.3250	-.0250	-.1070	-.2060	-.1670	.3780	.2260	-.2100	.0170	.0360	.0220	.0010
90.000	1.3500	1.3090	.6880	.2320	-.1040	-.1850	-.2740	-.2390	.4890	-.3620	-.3020	-.2200	-.0680	.0530	.0480
120.000	1.3500		.5600	.1240	-.1910	-.2630	-.3390	-.3070	.0410	-.2100	-.2810	-.2080	.0000	.0990	.0190
135.000	1.3500							-.3330		-.0710		-.2090		.0820	
150.000	1.3500		.4650	.0420	-.2510	-.3190	-.3870	-.3470	.0510	.1580	.0200	-.1130	-.0530	.1030	-.0110
165.000	1.3500			.0110	-.2710	-.3350	-.3950	-.2130	.0270	.2220	-.0300		-.1350		-.0280
180.000	1.3500	1.0840	.4130	-.0090	-.2760	-.3410	-.4040	-.0550	.0120	.1940	-.0320	-.0730	-.2210	.1390	-.0650
270.000	1.3500	1.1570													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0480	.0330	.0310
30.000	-.0220	.0620	.0540
60.000	.0830	.0670	.0540
90.000			-.2170
120.000	.0830	.3000	.1060
135.000	.0910	.3180	.1410
150.000	.1190	.3070	.1290
165.000		.1760	.1430
180.000	.1200		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT38)

MACH (2) = 1.248 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3660	1.4060	.8190	.3500	-.0090	-.0940	-.1980	-.1570	-.0930	.2950	.1630	-.0300	-.0580	-.0080	.0180
30.000	1.3660		.7890	.3220	-.0410	-.1180	-.2220	-.1790	.1030	.2520	.0550	-.0600	-.0290	-.0240	-.0550
60.000	1.3660		.6930	.2320	-.1020	-.1910	-.2740	-.2370	.2410	.2750	-.1560	.0140	-.0180	-.0130	-.0250
90.000	1.3660	1.2480	.5900	.1380	-.1780	-.2550	-.3360	-.2990	.4900	-.3780	-.3840	-.3550	-.0580	.0420	-.0040
120.000	1.3660		.4960	.0610	-.2360	-.3070	-.3760	-.3360	.0880	-.1520	-.2980	-.1420	.0440	.0800	-.0560
135.000	1.3660							-.2170		.0400		-.1950		.0830	
150.000	1.3660		.4440	.0210	-.2640	-.3320	-.3930	-.0620	-.0010	.1440	-.0090	-.1380	.0100	.0840	-.0320
165.000	1.3660			.0050	-.2710	-.3350	-.3460	-.0440	.0040	.1590	.0600		-.0950		-.0180
180.000	1.3660	1.1020	.4280	.0000	-.2760	-.3380	-.3320	-.0410	.0040	.1710	.0570	-.0570	-.1010	.1270	-.0060
270.000	1.3660	1.2540													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0270	.0330	.0290
30.000	-.0040	.0420	.0290
60.000	.0870	.0460	.0000
90.000			-.0790
120.000	.0520	.1620	.0280
135.000	.0770	.1650	.0500
150.000	.1000	.1100	.0500
165.000		-.0480	.0330
180.000	.1280		

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3590	1.3920	.8040	.3370	-.0170	-.1010	-.2050	-.1570	-.0950	.2640	.1240	-.0390	-.0480	-.0220	.0030
30.000	1.3590		.7070	.2490	-.0920	-.1680	-.2660	-.2210	.0110	.2660	.0870	-.0780	-.0660	-.0520	-.0940
60.000	1.3590		.5840	.1410	-.1750	-.2490	-.3340	-.3000	.1430	.3510	-.0900	-.0100	-.0570	-.0490	-.0390
90.000	1.3590	1.1630	.4880	.0510	-.2410	-.3120	-.3880	-.3180	.5040	-.3770	-.4290	-.3620	-.0980	-.0190	-.0410
120.000	1.3590		.4170	.0010	-.2760	-.3420	-.4050	-.2530	.0230	-.0840	-.2300	-.0730	.0270	.0590	-.0790
135.000	1.3590							-.1000		.1310		-.1510		.0610	
150.000	1.3590		.4040	-.0110	-.2850	-.3500	-.3980	-.0720	.0000	.1320	.0150	-.1870	-.0520	.0610	-.0930
165.000	1.3590			-.0140	-.2860	-.3490	-.3970	-.0540	.0110	.1850	.0420		-.2240		-.0900
180.000	1.3590	1.1010	.4200	-.0110	-.2840	-.3450	-.3990	-.0590	.0220	.1850	.0460	-.0790	-.2300	.1330	-.0630
270.000	1.3590	1.3240													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT38)

AMES 11-707 IA9 OPA + S3 + T9 EXTERNAL TANK

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0400	.0260	.0280
30.000	-.0400	.0140	.0140
60.000	.0710	.0230	-.0240
90.000			-.0680
120.000	.0700	.0980	-.0120
135.000	.0700	.1060	-.0240
150.000	.1100	.0790	-.0870
165.000		-.2290	-.1250
180.000	.1650		

MACH (2) = 1.245 BETAT (5) = 8.290

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3200	1.3520	.7820	.3230	-.0270	-.1100	-.2150	-.1760	-.0800	.1380	.0540	-.0660	-.0360	-.0390	-.0310
30.000	1.3200		.6270	.1790	-.1510	-.2230	-.3180	-.2820	.0700	.2150	.0550	-.1020	-.0650	-.0810	-.1450
60.000	1.3200		.4760	.0460	-.2490	-.3190	-.3970	-.3690	.0830	.3690	-.0230	-.0330	-.0910	-.0800	-.0580
90.000	1.3200	1.0460	.3900	-.0320	-.3010	-.3710	-.4310	-.1010	.5040	-.3740	-.3970	-.3300	-.1950	-.0720	-.0930
120.000	1.3200		.3450	-.0560	-.3130	-.3710	-.4290	-.0860	-.0290	-.0340	-.1440	-.0570	-.0050	.0160	-.0950
135.000	1.3200							-.0830		.1000		-.1120		.0130	
150.000	1.3200		.3500	-.0520	-.3150	-.3760	-.4210	-.0950	.0070	.1620	-.0190	-.2130	-.1260	-.0080	-.0950
165.000	1.3200			-.0460	-.3120	-.3730	-.3720	-.0770	-.0330	.1610	-.1410		-.2970		-.1600
180.000	1.3200	1.0650	.3900	-.0300	-.3060	-.3670	-.3930	-.0780	-.0310	.1880	-.1440	-.1010	-.1990	-.2010	-.0980
270.000	1.3200	1.3660													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0870	.0280	.0190
30.000	-.0860	-.0020	-.0270
60.000	.0850	.0050	-.0280
90.000			-.0720
120.000	.0640	.0530	-.0930
135.000	.1010	.0100	-.1470
150.000	.1150	-.1370	-.1830
165.000		-.1990	-.1940
180.000	.0580		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7X7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT39) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.105 BETAT (1) = -8.180

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2380	.9970	.3370	-.0910	-.3660	-.4540	-.2680	-.1030	.0070	.0480	-.1910	-.2960	-.1120	-.0500	-.0290
30.000	1.2380		.4250	-.0270	-.3430	-.4080	-.5000	-.1570	-.0300	-.1770	-.4570	-.1560	-.1240	-.1170	-.1120
60.000	1.2380		.5760	.1110	-.2330	-.3110	-.4130	.0160	.0310	-.3740	-.5660	-.2050	-.1080	-.1220	-.0450
90.000	1.2380	1.2790	.7280	.2540	-.1080	-.2080	-.3130	.3050	.4610	-.5320	-.3610	-.4160	-.0810	-.1280	-.1020
120.000	1.2380		.8210	.3510	-.0370	-.1230	-.2340	.2780	.5090	.1920	.2370	.1740	.1220	.0150	-.1940
135.000	1.2380							.1970		.3160		.1800		.0050	
150.000	1.2380		.8230	.3490	-.0410	-.1300	-.2310	-.1220	.4340	.4100	.1730	.1450	.0980	-.0750	-.2020
165.000	1.2380			.3080	-.0750	-.1590	-.2600	-.1950	.4330	.4920	.0350		.0140		-.2940
180.000	1.2380	1.2710	.7200	.2450	-.1210	-.2080	-.3090	-.2560	.4270	.4830	-.1680	.1430	-.0820	-.2270	-.4380
270.000	1.2380	.9720													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0660	.0080	-.0960
30.000	-.0680	-.0230	-.0510
60.000	-.0250	-.0370	-.1240
90.000			-.2450
120.000	.1570	.1800	-.1280
135.000	.1520	.2280	-.1170
150.000	.1650	.2760	-.1160
165.000		.2280	-.0850
180.000	.0460		

MACH (1) = 1.097 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2720	1.0210	.3610	-.0790	-.3780	-.4420	-.4790	-.0920	.0260	.0730	-.1340	-.3150	-.0850	.0090	-.0120
30.000	1.2720		.4060	-.0460	-.3530	-.4190	-.5070	-.1310	.0290	-.0730	-.3490	-.1650	-.0890	-.0440	-.0800
60.000	1.2720		.5070	.0460	-.2900	-.3670	-.4580	-.0620	.0500	-.3520	-.5620	-.2430	-.1060	-.0590	-.0690
90.000	1.2720	1.2360	.6280	.1560	-.1990	-.2830	-.3840	.1370	.4590	-.5630	-.3950	-.4010	-.1990	-.1450	-.1050
120.000	1.2720		.7300	.2590	-.1170	-.2050	-.3030	.1370	.5290	.2190	.1470	.1600	.0580	-.0480	-.2580
135.000	1.2720							-.1560		.3320		.1790		-.0480	
150.000	1.2720		.7310	.3070	-.0850	-.1670	-.2690	-.1900	.4770	.4080	-.0520	.1900	.0510	-.1000	-.2570

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 C2A + S3 + T9 EXTERNAL TANK (RBMT39)

MACH (1) = 1.097 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.2720			.2940	-.0820	-.1780	-.2720	-.1970	.4840	.4870	-.1140		.0220		-.3010
180.000	1.2720	1.3110	.7520	.2680	-.1090	-.1950	-.2940	-.1980	.4820	.4870	-.1700	.1510	.0100	-.1760	-.3440
270.000	1.2720	1.0810													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0580	.0090	-.0970
30.000	-.0580	-.0030	-.0960
60.000	-.0400	-.0040	-.0870
90.000			-.1500
120.000	.1380	.0980	-.1490
135.000	.1580	.1180	-.2170
150.000	.1780	.1220	-.2120
165.000		-.0270	-.1910
180.000	.1270		

MACH (1) = 1.095 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2840	1.0260	.3630	-.0750	-.3760	-.4400	-.5140	-.0990	.0410	.1050	-.1040	-.3350	-.0300	.0240	-.0060
30.000	1.2840		.3780	-.0730	-.3760	-.4360	-.5130	-.0990	.0180	.0240	-.2690	-.1830	-.0430	.0050	-.0820
60.000	1.2840		.4320	-.0210	-.3400	-.4100	-.4930	-.0880	.1140	-.2940	-.4310	-.2330	-.0900	-.1590	-.0700
90.000	1.2840	1.1680	.5270	.0620	-.2810	-.3590	-.4490	.0230	.4520	-.5500	-.4830	-.4110	-.0430	-.1140	-.1230
120.000	1.2840		.6220	.1620	-.2010	-.2810	-.3730	.0450	.5310	.2460	.0020	.1230	.0230	-.1220	-.3080
135.000	1.2840							.1020		.3300		.1330		-.1360	
150.000	1.2840		.7240	.2510	-.1260	-.2160	-.3140	-.0600	.4640	.3820	-.1920	.1510	.0070	-.1720	-.3220
165.000	1.2840			.2700	-.1100	-.1980	-.2980	-.2300	.4900	.4620	-.2890		.0120		-.3160
180.000	1.2840	1.3260	.7600	.2730	-.1070	-.1870	-.2980	-.2280	.4940	.5170	-.2890	.1720	.0230	-.1620	-.3190
270.000	1.2840	1.1690													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0810	.0270	-.0700
30.000	-.0800	.0090	-.0720
60.000	-.0410	.0080	-.0630
90.000			-.1760
120.000	.0870	.0200	-.2180
135.000	.1050	.0100	-.2630
150.000	.1260	-.0180	-.2520

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT39)

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1590	-.2730
180.000	.1440		

MACH (1) = 1.104 BETAT (4) = 4.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2760	1.0140	.3540	-.0800	.0000	.0000	-.3950	-.0940	.0390	.0730	-.1340	-.3050	-.0720	.0010	-.0110
30.000	1.2760		.3380	.0000	.0000	.0000	-.3140	-.0920	-.0020	-.0010	-.2080	-.2690	-.0610	-.0090	-.0920
60.000	1.2760		.3620	.0000	.0000	-.4360	-.1440	-.0980	.0090	-.2340	-.3030	-.2960	-.0570	-.0880	-.1300
90.000	1.2760	1.0790	.4210	.0000	.0000	-.4130	-.0370	-.0420	.5580	-.5390	-.4880	-.4050	-.1360	-.1530	-.1420
120.000	1.2760		.5140	.0000	.0000	-.3450	-.4320	.0410	.5440	.2690	-.0700	.0950	-.0220	-.1800	-.3440
135.000	1.2760							.0330		.3190		.0840		-.2200	
150.000	1.2760		.6460	.0000	.0000	-.2660	-.3570	-.2050	.4410	.3340	-.2640	.0940	-.0520	-.2570	-.3940
165.000	1.2760			.0000	.0000	-.2220	-.3210	-.2460	.4550	.4150	-.3620		-.0320		-.3870
180.000	1.2760	1.3190	.7530	.0000	.0000	-.1870	-.2920	-.2030	.4790	.5080	-.3630	.1480	.0030	-.1810	-.3520
270.000	1.2760	1.2390													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0720	.0100	-.1050
30.000	-.0490	.0140	-.0910
60.000	-.0390	.0130	-.0920
90.000			-.2130
120.000	.0850	-.0650	-.2140
135.000	.0850	-.0570	-.2360
150.000	.0990	-.0680	-.2280
165.000		-.3450	-.2450
180.000	.1310		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

ANES 11-707 IA9 O2A + S3 + T9 EXTERNAL TANK (RBMT39)

MACH (1) = 1.099 BETAT (5) = 8.310

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2330	.9730	.3270	-.1000	-.4000	-.4650	-.2100	-.1090	.0050	.0370	-.1940	-.2650	-.1090	-.0550	-.0370
30.000	1.2330		.2680	-.1430	-.4220	-.4760	-.1440	-.0900	-.0210	-.1180	-.2220	-.3310	-.1210	-.0570	-.1140
60.000	1.2330		.2910	-.1390	-.4180	-.4700	-.1170	-.1070	-.0700	-.1940	-.2270	-.2620	-.1090	-.0630	-.1010
90.000	1.2330	.9640	.3280	-.1190	-.4040	-.4650	-.0910	-.1380	.5900	-.5170	-.4850	-.3140	-.4690	-.1880	-.1710
120.000	1.2330		.4070	-.0290	-.3460	-.4140	-.4990	-.0800	.5260	.2700	-.1190	.0730	-.0480	-.2270	-.4020
135.000	1.2330							-.1910		.2733		.0360		-.2690	
150.000	1.2330		.3560	.1080	-.2470	-.3290	-.4170	-.3490	.3710	.2440	-.3560	.0490	-.1240	-.3470	-.5130
165.000	1.2330			.1750	-.1950	-.2690	-.3610	-.3090	.3810	.3280	-.4390		-.1170		-.5740
180.000	1.2330	1.2740	.7180	.2440	-.1300	-.2110	-.3160	-.2070	.4060	.4660	-.4400	.1380	-.0600	-.2560	-.4480
270.000	1.2330	1.2700													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0770	.0000	-.0970
30.000	-.0500	.0240	-.0990
60.000	-.0380	.0050	-.1140
90.000			-.2090
120.000	.0070	-.1150	-.2460
135.000	-.0070	-.0790	-.2730
150.000	-.0430	-.2580	-.3000
165.000		-.3410	-.2960
180.000	.0240		

MACH (2) = 1.251 BETAT (1) = -8.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.174	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3180	1.0730	.3910	-.0220	-.2860	-.3480	-.4290	-.3880	-.0110	.0340	-.0700	-.2740	-.1600	-.0920	-.0060
30.000	1.3180		.4820	.0620	-.2370	-.2980	-.3940	-.3570	-.1230	-.2030	-.3520	-.2370	-.1030	-.1130	-.1090
60.000	1.3180		.6310	.1870	-.1350	-.2200	-.3060	-.2540	.0540	-.2840	-.6200	-.2420	-.1200	-.1070	-.0190
90.000	1.3180	1.3570	.7850	.3230	-.0290	-.1180	-.2120	-.1340	.5280	-.3450	-.4610	-.2510	-.3030	-.1220	-.0650
120.000	1.3180		.8770	.4140	.0480	-.0470	-.1470	-.1050	.5000	.2820	.0110	.2490	.2010	.1140	-.0860
135.000	1.3180							-.1010		.4020		.2620		.1270	
150.000	1.3180		.8770	.4130	.0410	-.0490	-.1460	-.1040	.3820	.4970	.1060	.2090	.1640	.0930	-.0880
165.000	1.3180			.3710	.0070	-.0800	-.1730	-.1350	.3440	.5840	.0750		.1540		-.1730
180.000	1.3180	1.3480	.7740	.3150	-.0310	-.1240	-.2170	-.1770	.2950	.5850	.0730	-.2090	.1340	-.0620	-.2980
270.000	1.3180	1.0510													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBHT39)

MACH (2) = 1.251 BETAT (1) = -8.120

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0480	-.0310	-.0320
30.000	-.0620	-.0470	-.0230
60.000	-.0490	-.0390	-.0540
90.000			-.2180
120.000	.0510	.2270	.0070
135.000	-.0230	.2750	-.0250
150.000	-.0750	.3030	-.0260
165.000		.2820	-.0330
180.000	-.3720		

MACH (2) = 1.249 BETAT (2) = -4.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3590	1.0960	.4180	-.0020	-.2720	-.3300	-.4070	-.3580	.0130	.0820	-.0280	-.2450	-.2070	-.0710	.0250
30.000	1.3590		.4660	.0370	-.2500	-.3090	-.3960	-.3530	-.0840	-.0650	-.2240	-.2270	-.1090	-.1150	-.0660
60.000	1.3590		.5620	.1190	-.1890	-.2710	-.3490	-.2900	.0450	-.2870	-.5780	-.3090	-.0890	-.0930	-.0740
90.000	1.3590	1.3170	.6850	.2290	-.1070	-.1940	-.2840	-.2500	.5310	-.3620	-.3570	-.3270	-.2800	-.2150	-.0890
120.000	1.3590		.7890	.3250	-.0280	-.1190	-.2120	-.1730	.5190	.3250	.0040	.1120	.2070	.0540	-.1500
135.000	1.3590							-.1500		.4320		.1210		.0540	
150.000	1.3590		.8410	.3700	.0050	-.0850	-.1800	-.1390	.3760	.5210	.0230	.0930	.2130	.0300	-.1500
165.000	1.3590			.3650	.0010	-.0880	-.1850	-.1420	.3550	.6020	-.0330		.1920		-.1870
180.000	1.3590	1.3920	.8090	.3320	-.0200	-.1070	-.2040	-.1620	.3360	.6020	-.0870	-.0770	.1670	-.0390	-.2340
270.000	1.3590	1.1560													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0500	-.0490	-.0620
30.000	-.0500	-.0470	-.0400
60.000	-.0250	-.0290	-.0370
90.000			-.0860
120.000	-.0340	.1460	-.0860
135.000	-.1040	.1770	-.1160
150.000	-.1340	.1770	-.1150
165.000		.1040	-.1520
180.000	-.2870		

DATE 24 SEP 73 TABULATED PRESSURE DATA - 1A9A (RBNT39)

AMES 11-707 1A9 C2A + S3 + T9 EXTERNAL TANK

MACH (2) = 1.246 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3680	1.1050	.4210	.0020	-.2710	-.3260	-.4010	-.3480	.0250	.0930	-.0070	-.2370	-.2140	-.0580	.0350
30.000	1.3680		.4370	.0060	-.2670	-.3220	-.4050	-.3530	-.0180	.0300	-.1550	-.2080	-.1650	-.0780	-.0280
60.000	1.3680		.4920	.0540	-.2390	-.3130	-.3880	-.3290	.0050	-.2660	-.4990	-.3240	-.0310	-.1160	-.0950
90.000	1.3680	1.2490	.5840	.1330	-.1800	-.2640	-.3460	-.2890	.5350	-.3600	-.3130	-.3870	-.3160	-.1380	-.1010
120.000	1.3680		.6860	.2320	-.1040	-.1910	-.2750	-.2350	.4100	.3590	.0280	.0600	.1540	-.0190	-.2010
135.000	1.3680							-.2090		.4420		.0930		-.0270	
150.000	1.3680		.7830	.3200	-.0410	-.1300	-.2210	-.1780	.3220	.4640	-.0240	.0780	.1500	-.0460	-.2010
165.000	1.3680			.3320	-.0240	-.1120	-.2050	-.1620	.3270	.5740	-.1070		.1510		-.2150
180.000	1.3680	1.4060	.8170	.3350	-.0190	-.1120	-.2020	-.1580	.3450	.6440	-.1260	-.0100	.1620	-.0450	-.1890
270.000	1.3680	1.2460													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0320	-.0330	-.0330
30.000	-.0320	-.0290	-.0350
60.000	-.0110	-.0100	-.0250
90.000			-.0830
120.000	-.0870	.0910	-.1040
135.000	-.1540	.0900	-.2000
150.000	-.1780	.0820	-.2250
165.000		-.0170	-.2250
180.000	-.1640		

MACH (2) = 1.246 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3550	1.0890	.4130	-.0100	-.2730	-.3280	-.4110	-.3630	.0090	.0780	-.0360	-.2390	-.1980	-.0820	.0170
30.000	1.3550		.3960	-.0170	-.2820	-.3320	-.4110	-.3650	.0040	.0250	-.1090	-.1830	-.1960	-.0540	-.0310
60.000	1.3550		.4190	-.0010	-.2720	-.3450	-.4120	-.2580	.0360	-.1880	-.2830	-.2610	-.0730	-.0960	-.0870
90.000	1.3550	1.1540	.4760	.0490	-.2410	-.3220	-.3970	-.0080	.3870	-.3540	-.3140	-.4330	-.3260	-.2150	-.1070
120.000	1.3550		.5730	.1380	-.1750	-.2600	-.3400	.0060	.1810	.3310	.0520	.0450	.1190	-.0620	-.2500
135.000	1.3550							-.2650		.3870		.0800		-.0950	
150.000	1.3550		.7030	.2540	-.0870	-.1810	-.2690	-.2250	.2500	.4280	-.0980	.0360	.0870	-.1220	-.2800
165.000	1.3550			.2990	-.0490	-.1430	-.2320	-.1900	.3010	.5340	-.1970		.1190		-.2880
180.000	1.3550	1.3950	.8060	.3340	-.0200	-.1110	-.2090	-.1600	.3250	.6290	-.1940	-.0620	.1670	-.0490	-.2470
270.000	1.3550	1.3120													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT39)

AMES 11-7D7 IA9 O2A + S3 + T9 EXTERNAL TANK

MACH (2) = 1.246 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0580	-.0480	-.0800
30.000	-.0550	-.0340	-.0590
60.000	-.0450	-.0200	-.0390
90.000			-.1420
120.000	-.0990	-.0380	-.1420
135.000	-.1390	-.0780	-.2170
150.000	-.1720	-.0780	-.2050
165.000		-.1910	-.2040
180.000	-.2680		

MACH (2) = 1.245 BETAT (5) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3150	1.0510	.3840	-.0290	-.2950	-.3550	-.4280	-.3930	-.0170	.0200	-.0960	-.2700	-.1520	-.0780	-.0150
30.000	1.3150		.3430	-.0590	-.3150	-.3650	-.4380	-.3450	-.0200	.0090	-.0960	-.2280	-.2050	-.0720	-.0420
60.000	1.3150		.3440	-.0620	-.3140	-.3760	-.4050	-.1620	-.0510	-.1430	-.2100	-.1930	-.1480	-.0660	-.0260
90.000	1.3150	1.0440	.3810	-.0350	-.3030	-.3750	-.1040	-.0880	.2000	-.3210	-.3080	-.4270	-.2870	-.3990	-.1010
120.000	1.3150		.4640	.0410	-.2530	-.3280	-.3580	-.0220	.1070	.3610	.0620	.0110	.0930	-.0850	-.2850
135.000	1.3150							-.1070		.3740		.0560		-.1290	
150.000	1.3150		.6130	.1760	-.1550	-.2410	-.3230	-.2810	.2000	.3240	-.2000	.0250	.0420	-.1760	-.3900
165.000	1.3150			.2440	-.1020	-.1860	-.2730	-.2330	.2570	.4210	-.2940		.0690		-.4120
180.000	1.3150	1.3550	.7760	.3070	-.0460	-.1320	-.2230	-.1760	.3080	.5660	-.2920	-.2330	.1470	-.0720	-.3020
270.000	1.3150	1.3520													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0520	-.0410	-.0490
30.000	-.0480	-.0300	-.0670
60.000	-.0330	-.0140	-.0690
90.000			-.1350
120.000	-.0570	-.0420	-.2220
135.000	-.1000	-.0320	-.2300
150.000	-.1500	-.1050	-.2530
165.000		-.3000	-.2530
180.000	-.3830		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT40) (27 APR 73)

AMES 11-707 IA9 O2A + S3 + T9 EXTERNAL TANK

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2760	1.1040	.4370	-.0090	-.3320	-.4030	-.4880	-.2760	.0410	.0360	-.1660	-.3320	-.1050	-.0550	-.0200
30.000	1.2760		.5360	.0740	-.2710	-.3440	-.4410	-.3520	.0545	-.1040	-.3780	-.1280	-.0840	-.0920	-.0960
60.000	1.2760		.6570	.1820	-.1760	-.2600	-.3590	.0270	.1510	-.2280	-.5070	-.1100	.0010	-.0260	-.0720
90.000	1.2760	1.3150	.7520	.2690	-.1070	-.1940	-.2980	.3040	.5120	-.5350	-.3840	-.4250	-.1620	-.1800	-.1040
120.000	1.2760		.7790	.2990	-.0830	-.1660	-.2690	.1480	.4310	.0790	-.0610	.1850	.1210	.0120	-.1880
135.000	1.2760							-.0390		.2290		.1860		.0110	
150.000	1.2760		.7300	.2560	-.1250	-.2070	-.3030	-.2360	.3600	.3510	-.0730	.1460	.1000	-.0780	-.2150
165.000	1.2760			.2050	-.1660	-.2400	-.3350	-.2880	.3640	.4480	-.0990		.0210		-.3020
180.000	1.2760	1.2350	.6240	.1500	-.2060	-.2840	-.3780	-.3250	.3710	.4510	-.0990	.0430	-.0650	-.2380	-.4440
270.000	1.2760	1.0120													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0970	-.0300	-.1000
30.000	-.0960	-.0350	-.0960
60.000	-.0490	.0150	-.0420
90.000			-.1140
120.000	.1790	.2240	.0040
135.000	.1940	.2680	.0340
150.000	.2110	.3040	.0360
165.000		.2800	.0520
180.000	.0170		

MACH (1) = 1.101 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3160	1.1360	.4590	.0020	-.3220	-.3930	-.4730	-.3100	.0760	.1050	-.1010	-.3400	-.0600	.0230	.0090
30.000	1.3160		.5100	.0370	-.2980	-.3640	-.4520	-.3890	.1020	.0120	-.3000	-.1560	-.0620	-.0140	-.0600
60.000	1.3160		.5840	.1090	-.2370	-.3150	-.4100	-.1090	.1990	-.1890	-.4840	-.0810	-.0050	-.0290	-.0570
90.000	1.3160	1.2770	.6550	.1730	-.1890	-.2720	-.3720	.1420	.5170	-.5380	-.3770	-.4390	-.2590	-.1830	-.1040
120.000	1.3160		.6910	.2140	-.1550	-.2390	-.3340	.0690	.4700	.1370	-.1950	.1630	.0680	-.0410	-.2310
135.000	1.3160							-.1780		.2760		.1810		-.0450	
150.000	1.3160		.6910	.2140	-.1610	-.2400	-.3340	-.2700	.4090	.3640	-.1540	.2030	.0650	-.0950	-.2310

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBMT40)

MACH (1) = 1.101 BETAT (2) = -4.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3160			.1950	-.1700	-.2530	-.3440	-.2850	.4220	.4590	-.2060		.0310		-.2900
180.000	1.3160	1.2760	.6530	.1660	-.1920	-.2710	-.3630	-.2860	.4130	.4870	-.2060	.1770	.0100	-.1630	-.3390
270.000	1.3160	1.1270													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0780	-.0070	-.0770
30.000	-.0790	-.0140	-.0790
60.000	-.0540	-.0260	-.0910
90.000			-.1350
120.000	.1480	.1360	-.1340
135.000	.1650	.1570	-.1350
150.000	.1650	.1570	-.1240
165.000		-.0160	-.1120
180.000	.1400		

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3250	1.1400	.4670	.0060	-.3220	-.3900	-.4730	-.4060	.0610	.1230	-.0550	-.3250	-.0290	.0520	.0260
30.000	1.3250		.4740	.0010	-.3200	-.3850	-.4720	-.4050	.0650	.0910	-.2230	-.2160	-.0310	.0370	-.0480
60.000	1.3250		.5060	.0340	-.2960	-.3670	-.4540	-.1470	.2280	-.1470	-.4740	-.0380	-.0310	-.0220	-.0480
90.000	1.3250	1.2100	.5560	.0810	-.2650	-.3420	-.4320	.0470	.5330	-.5210	-.4340	-.4280	-.2300	-.2000	-.1110
120.000	1.3250		.5990	.1330	-.2240	-.3020	-.3920	.0730	.3590	.1930	-.1590	.1290	.0370	-.1060	-.2620
135.000	1.3250							.0630		.3010		.1320		-.1060	
150.000	1.3250		.6550	.1750	-.1970	-.2750	-.3670	-.0770	.2970	.3580	-.2000	.1600	.0350	-.1440	-.2900
165.000	1.3250			.1740	-.1860	-.2700	-.3580	-.2950	.3240	.4500	-.2770		.0370		-.2970
180.000	1.3250	1.2930	.6650	.1750	-.1870	-.2630	-.3600	-.3030	.3440	.5100	-.2740	.1910	.0470	-.1430	-.2950
270.000	1.3250	1.2130													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0730	-.0200	-.0640
30.000	-.0730	-.0180	-.0550
60.000	-.0440	-.0350	-.1240
90.000			-.1560
120.000	.1280	.0430	-.1550
135.000	.1280	.0400	-.1920
150.000	.1550	.0115	-.1930

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT4D)

AMES 11-7?7 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1490	-.2180
180.000	.1720		

MACH (1) = 1.099 BETAT (4) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3130	1.1260	.4530	.0020	-.3210	-.3920	-.4770	-.2510	.0670	.1030	-.1090	-.3340	-.0760	.0220	.0120
30.000	1.3130		.4250	-.0340	-.3430	-.4120	-.4880	-.0650	.0340	.0450	-.1320	-.2530	-.0790	.0250	-.0390
60.000	1.3130		.4250	-.0330	-.3400	-.4100	-.4340	-.0610	.1030	-.0730	-.5200	-.0700	-.0740	-.0140	-.0770
90.000	1.3130	1.1180	.4580	-.0130	-.3230	-.4010	-.0960	-.0320	.5360	-.5060	-.5160	-.2060	-.4540	-.2200	-.1450
120.000	1.3130		.4980	.0420	-.2890	-.3660	-.0150	.0300	.2060	.2140	-.1070	.0510	-.0060	-.1710	-.3110
135.000	1.3130							.0340		.3030		.0600		-.2020	
150.000	1.3130		.5790	.1150	-.2360	-.3210	-.4070	.0090	.2570	.3240	-.2570	.1070	-.0310	-.2310	-.3630
165.000	1.3130			.1440	-.2140	-.2950	-.3830	-.1440	.3300	.4040	-.3550		-.0210		-.3830
180.000	1.3130	1.2790	.6580	.1700	-.1890	-.2680	-.3620	-.3040	.3840	.4880	-.3530	.1840	.0160	-.1680	-.3320
270.000	1.3130	1.2770													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0860	-.0010	-.0790
30.000	-.0570	.0100	-.0770
60.000	-.0400	-.0050	-.0870
90.000			-.1960
120.000	.1070	-.0290	-.1960
135.000	.1110	-.0380	-.1960
150.000	.1140	-.0710	-.1960
165.000		-.3080	-.2120
180.000	.1400		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT40)

MACH (1) = 1.100 BETAT (5) = 8.260

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.2750	1.0850	.4300	-.0140	-.3370	-.4090	-.4870	-.3340	.0350	.0280	-.1790	-.2910	-.1150	-.0800	-.0490
30.000	1.2750		.3650	-.0800	-.3820	-.4390	-.4140	-.0770	.0340	.0430	-.1780	-.2620	-.0840	-.0100	-.0500
60.000	1.2750		.3460	-.0980	-.3860	-.4460	-.1080	-.0760	-.0260	-.0360	-.1900	-.1550	-.1050	-.0320	-.0680
90.000	1.2750	1.0080	.3650	-.0870	-.3780	-.4020	-.0320	-.0670	.3060	-.4620	-.4610	-.1840	-.4110	-.2760	-.1640
120.000	1.2750		.3980	-.0400	-.3500	-.4220	-.0250	-.0370	.2050	.2610	-.1210	.0130	-.0480	-.2190	-.3770
135.000	1.2750							-.0560		.2750		.0310		-.2730	
150.000	1.2750		.5010	.0490	-.2900	-.3680	-.4510	-.0700	.2530	.2450	-.3340	.0640	-.1240	-.3380	-.4980
165.000	1.2750			.0960	-.2560	-.3290	-.4130	-.3640	.3230	.3220	-.4350		-.1160		-.5690
180.000	1.2750	1.2410	.6230	.1480	-.2020	-.2850	-.3820	-.3290	.3620	.4460	-.4340	-.1260	-.0470	-.2370	-.4450
270.000	1.2750	1.3160													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0960	-.0330	-.1080
30.000	-.0560	.0090	-.1090
60.000	-.0490	.0000	-.0980
90.000			-.1800
120.000	.0680	-.0510	-.2460
135.000	.0090	-.0510	-.2610
150.000	-.0020	-.2290	-.2690
165.000		-.3040	-.2640
180.000	.0120		

MACH (2) = 1.244 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3560	1.1760	.4900	.0580	-.2380	-.3030	-.3920	-.3540	-.0460	.0840	-.0490	-.2410	-.1760	-.1070	-.0230
30.000	1.3560		.5880	.1430	-.1760	-.2430	-.3430	-.3030	-.0430	-.0920	-.2720	-.2970	-.0840	-.0970	-.1070
60.000	1.3560		.7120	.2490	-.0890	-.1740	-.2700	-.2250	.1860	-.1180	-.5800	-.1510	-.0270	-.0040	-.0450
90.000	1.3560	1.3920	.8070	.3340	-.0250	-.1140	-.2050	-.1130	.5490	-.3400	-.6780	-.2960	-.3250	-.1790	-.1000
120.000	1.3560		.8320	.3610	-.0030	-.0930	-.1870	-.1440	.4100	.1630	-.1560	.1760	.2140	.0870	-.0780
135.000	1.3560							-.1600		.3040		.1470		.1270	
150.000	1.3560		.7850	.3210	-.0430	-.1300	-.2200	-.1800	.2220	.4410	.0560	.0060	.1890	.1090	-.0780
165.000	1.3560			.2700	-.0780	-.1621	-.2440	-.2090	.2540	.5370	.0440		.0190		-.1870
180.000	1.3560	1.3080	.6770	.2130	-.1200	-.2020	-.2870	-.2450	.2750	.5460	.0440	-.2660	.1480	-.0340	-.2920
270.000	1.3560	1.0850													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT4D)

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK

MACH (2) = 1.244 BETAT (1) = -8.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0450	-.0490	-.0480
30.000	-.0450	-.0350	-.0340
60.000	-.0860	-.0200	.0050
90.000			-.1730
120.000	.0460	.2930	.0100
135.000	-.0330	.3420	.0480
150.000	-.0990	.3620	.0490
165.000		.3730	.0780
180.000	-.3870		

MACH (2) = 1.245 BETAT (2) = -4.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3960	1.2100	.5150	.0700	-.2180	-.2850	-.3730	-.3870	-.0470	.1310	.0090	-.2070	-.2380	-.0620	.0210
30.000	1.3960		.5660	.1220	-.1900	-.2560	-.3550	-.3090	-.0150	.0460	-.1480	-.2770	-.0620	-.0860	-.0510
60.000	1.3960		.6390	.1790	-.1420	-.2290	-.3150	-.2730	.1850	-.0970	-.5560	-.1210	.0040	-.0210	-.0770
90.000	1.3960	1.3540	.7090	.2440	-.0960	-.1870	-.2700	-.1860	.5480	-.3350	-.5960	-.3990	-.0520	-.2960	-.1070
120.000	1.3960		.7470	.2820	-.0670	-.1550	-.2420	-.2020	.3720	.2320	-.13[illegible]	.0610	.1530	.0830	-.1420
135.000	1.3960							-.2020		.3850		.0320		.0840	
150.000	1.3960		.7500	.2840	-.0690	-.1570	-.2420	-.2010	.2940	.4640	.0050	-.0610	.1640	.0530	-.1420
165.000	1.3960			.2650	-.0810	-.1660	-.2490	-.2100	.2620	.5660	-.0410		.2120		-.1690
180.000	1.3960	1.3520	.7070	.2350	-.1000	-.1850	-.2730	-.2230	.2360	.6090	-.0410	-.1710	.2180	-.0130	-.2110
[illegible]	1.3960	1.2000													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0370	-.0500	-.0490
30.000	-.0360	-.0390	-.0460
60.000	-.0370	-.0060	-.0100
90.000			-.0750
120.000	-.0360	.2090	-.0740
135.000	-.1110	.2230	-.0540
150.000	-.1330	.2280	-.0540
165.000		.1150	-.0470
180.000	-.2990		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT4D)

MACH (2) = 1.248 BETAT (3) = .010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4080	1.2160	.5230	.0790	-.2180	-.2810	-.3720	-.3240	-.0250	.1400	.0470	-.1930	-.2590	-.0530	.0200
30.000	1.4080		.5310	.0830	-.2190	-.2780	-.3700	-.3220	.0180	.0860	-.1070	-.2650	-.0990	-.0800	-.0900
60.000	1.4080		.5810	.1110	-.1960	-.2760	-.3530	-.3100	.1530	-.0570	-.5090	-.0960	-.0230	-.0570	-.0800
90.000	1.4080	1.2860	.6110	.1530	-.1640	-.2470	-.3240	-.2380	.5520	-.3250	-.5170	-.4260	-.1450	-.3380	-.1310
120.000	1.4080		.6560	.1990	-.1280	-.2120	-.2940	-.2350	.2470	.2890	-.1030	-.0190	.1440	.0160	-.1970
135.000	1.4080							-.2320		.3440		.0180		.0090	
150.000	1.4080		.7050	.2440	-.1020	-.1870	-.2710	-.2310	.2480	.3760	-.0160	-.0400	.0860	-.0120	-.1820
165.000	1.4080			.2480	-.0940	-.1790	-.2640	-.2260	.2530	.3930	-.0670		.1280		-.1740
180.000	1.4080	1.3700	.7230	.2440	-.0910	-.1770	-.2640	-.2210	.2610	.4290	-.0690	-.0560	.1720	-.0170	-.1610
270.000	1.4080	1.2900													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0160	-.0390	-.0370
30.000	-.0180	-.0270	-.0160
60.000	-.0360	-.0270	-.0360
90.000			-.0720
120.000	-.0790	.1150	-.0730
135.000	-.1510	.1150	-.1450
150.000	-.1870	.0950	-.1440
165.000		-.0070	-.1670
180.000	-.2060		

MACH (2) = 1.252 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3940	1.1990	.5120	.0780	-.2200	-.2870	-.3750	-.3290	-.0530	.1290	.0390	-.2020	-.2180	-.0580	.0120
30.000	1.3940		.4820	.0450	-.2400	-.2980	-.3780	-.3310	.0340	.0180	-.0440	-.2450	-.1440	-.0570	-.0290
60.000	1.3940		.4790	.0440	-.2360	-.3120	-.3790	-.3330	.0320	-.0130	-.4440	-.0830	-.0410	-.0740	-.0320
90.000	1.3940	1.1930	.5100	.0630	-.2210	-.2990	-.3770	-.2430	.5550	-.3190	-.4010	-.4300	-.0870	-.2860	-.1320
120.000	1.3940		.5580	.1110	-.1880	-.2690	-.3430	-.2760	.1240	.3410	-.0690	-.0430	.1200	-.0120	-.2480
135.000	1.3940							-.2760		.2540		.0060		-.0450	
150.000	1.3940		.6360	.1870	-.1440	-.2290	-.3070	-.2700	.1780	.3170	-.0820	-.0660	.1320	-.0800	-.2490
165.000	1.3940			.2150	-.1200	-.2050	-.2850	-.2440	.1730	.5160	-.1800		.1950		-.2370
180.000	1.3940	1.3570	.7140	.2400	-.1000	-.1810	-.2700	-.2260	.2340	.6130	-.1770	-.1550	.2350	-.0110	-.2160
270.000	1.3940	1.3550													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT40)

AMES 11-7?7 IA9 O2A + S3 + T9 EXTERNAL TANK

MACH (2) = 1.252 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0350	-.0510	-.0470
30.000	-.0350	-.0390	-.0350
60.000	-.0250	-.0280	-.0370
90.000			-.1050
120.000	-.0920	-.0070	-.1070
135.000	-.0920	-.0070	-.1810
150.000	-.1570	-.0080	-.1730
165.000		-.1840	-.1760
180.000	-.2910		

MACH (2) = 1.250 BETAT (5) = 8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3550	1.1590	.4830	.0530	-.2370	-.3010	-.3890	-.3500	-.0730	.0620	-.0580	-.2430	-.1690	-.1110	-.0320
30.000	1.3550		.4200	.0020	-.2770	-.3350	-.4150	-.3660	-.0020	.0860	-.0570	-.2400	-.1890	-.0830	-.0310
60.000	1.3550		.3980	-.0200	-.2840	-.3540	-.4170	-.1190	-.0410	.0380	-.3560	-.0970	-.1030	-.0920	-.0210
90.000	1.3550	1.0790	.4140	-.0130	-.2790	-.3530	-.3550	-.0700	.2960	-.2980	-.3250	-.4000	-.1130	-.2800	-.1300
120.000	1.3550		.4570	.0320	-.2550	-.3300	-.3410	-.0200	.0490	.1890	.0360	-.1480	.0890	-.0600	-.2760
135.000	1.3550							-.0230		.2830		-.1670		-.1000	
150.000	1.3550		.5540	.1190	-.1970	-.2790	-.3570	-.3030	.1200	.3460	-.1860	-.2430	.0550	-.1410	-.3700
165.000	1.3550			.1670	-.1610	-.2420	-.3220	-.2810	.1680	.4590	-.2670		.1170		-.3950
180.000	1.3550	1.3200	.6790	.2200	-.1180	-.2010	-.2880	-.2430	.1860	.5630	-.2680	-.2720	.1490	-.0320	-.2780
270.000	1.3550	1.3920													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0500	-.0560	-.0560
30.000	-.0020	-.0420	-.0580
60.000	.0090	-.0270	-.0500
90.000			-.1250
120.000	-.0240	-.0230	-.1780
135.000	-.1270	-.0230	-.2180
150.000	-.1840	-.1400	-.2450
165.000		-.3050	-.2670
180.000	-.3860		

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT41) (27 APR 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .900
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2880	1.1810	.5250	.0660	-.2730	-.3510	-.4450	-.3680	.1040	.0660	-.1260	-.2680	-.1330	-.0790	-.0280
30.000	1.2880		.6290	.1550	-.2070	-.2810	-.3650	-.3150	.1100	-.0260	-.2870	-.0810	-.0510	-.0740	-.0610
60.000	1.2880		.7220	.2360	-.1320	-.2180	-.3230	.0420	.2600	-.1250	-.4770	-.0200	.0400	.0090	-.0370
90.000	1.2880	1.3280	.7630	.2740	-.1040	-.1940	-.2990	.2350	.5250	-.5020	-.4660	-.0740	-.0980	-.1610	-.1130
120.000	1.2880		.7290	.2490	-.1290	-.2140	-.3120	.0540	.3350	-.0280	-.3460	.1910	.1490	.0330	-.1900
135.000	1.2880							-.2460		.1360		.1930		.0170	
150.000	1.2880		.6420	.1790	-.1950	-.2780	-.3680	-.3210	.2800	.2950	-.1220	.1460	.1210	-.0480	-.1700
165.000	1.2880			.1200	-.2380	-.3080	-.4010	-.3040	.2770	.4150	-.1310		.0500		-.2590
180.000	1.2880	1.1820	.5340	.0700	-.2690	-.3500	-.4390	-.1330	.2300	.4150	-.2280	-.1990	-.0190	-.2130	-.3910
270.000	1.2880	1.0270													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0880	-.0540	-.0780
30.000	-.0490	-.0170	-.0650
60.000	-.0060	.0030	-.0310
90.000			-.1150
120.000	.1970	.2750	.0960
135.000	.2080	.3180	.0930
150.000	.2170	.3530	.0850
165.000		.3380	.0650
180.000	.0520		

MACH (1) = 1.098 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3270	1.2150	.5510	.0850	-.2660	-.3390	-.4300	-.3660	.1370	.1380	-.0690	-.2870	-.0930	.0150	.0340
30.000	1.3270		.6000	.1140	-.2350	-.3080	-.4070	-.3410	.1460	.0740	-.2090	-.1250	-.0660	-.0010	-.0190
60.000	1.3270		.6430	.1610	-.1970	-.2740	-.3760	-.1830	.2900	-.0770	-.5450	-.0080	.0120	.0000	-.0020
90.000	1.3270	1.2890	.6680	.1770	-.1800	-.2670	-.3640	.0890	.5400	-.4950	-.4730	-.0170	-.0620	-.1350	-.0920
120.000	1.3270		.6490	.1740	-.1890	-.2710	-.3610	-.1080	.3910	.0360	-.3300	.1970	.1190	-.0040	-.1880
135.000	1.3270							-.2840		.2100		.1660		-.0120	
150.000	1.3270		.6130	.1400	-.2230	-.2970	-.3850	-.3320	.2790	.3380	-.1720	.1260	.1170	-.0560	-.1880

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT41)

AMES 11-707 IA9 CBA + S3 + T9 EXTERNAL TANK

MACH (1) = 1.098 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3270			.1120	-.2390	-.3140	-.4000	-.2240	.2670	.4250	-.2030		.0940		-.2150
180.000	1.3270	1.2210	.5650	.0810	-.2600	-.3300	-.4200	-.0110	.2045	.4630	-.2030	-.1710	.0700	-.1200	-.2700
270.000	1.3270	1.1400													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0760	-.0300	-.0430
30.000	-.0760	-.0140	-.0550
60.000	-.0310	-.0080	-.1010
90.000			-.1420
120.000	.1450	.1820	.0030
135.000	.1680	.2080	.0370
150.000	.1920	.2080	.0290
165.000		.0540	.0050
180.000	.1480		

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3370	1.2220	.5590	.0900	-.2600	-.3380	-.4250	-.3660	.1440	.1470	-.0540	-.2790	-.0480	.0480	.0340
30.000	1.3370		.5530	.0810	-.2670	-.3410	-.4270	-.3650	.1240	.1240	-.1250	-.1660	-.0500	.0470	-.0270
60.000	1.3370		.5580	.0860	-.2620	-.3350	-.4260	-.0560	.2860	-.0320	-.4980	-.0060	-.0120	.0160	-.0170
90.000	1.3370	1.2210	.5680	.0910	-.2550	-.3400	-.4260	.0250	.5650	-.4910	-.4070	.0000	-.0700	-.1470	-.1020
120.000	1.3370		.5630	.0950	-.2550	-.3320	-.4140	.0170	.3850	.0760	-.3170	.1610	.0710	-.0680	-.2480
135.000	1.3370							.0230		.2420		.1510		-.0720	
150.000	1.3370		.5690	.1030	-.2560	-.3290	-.4120	.0280	.1740	.3030	-.1890	.0880	.0570	-.1010	-.2480
165.000	1.3370			.0970	-.2510	-.3290	-.4060	.0470	.1700	.3320	-.2130		.0620		-.2480
180.000	1.3370	1.2340	.5730	.0900	-.2570	-.3280	-.4140	.0570	.1680	.3710	-.2190	.0020	.0740	-.0850	-.2470
270.000	1.3370	1.2270													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0550	-.0480	-.0600
30.000	-.0550	-.0340	-.0360
60.000	-.0410	-.0360	-.0920
90.000			-.1450
120.000	.1090	.0600	-.1450
135.000	.1260	.0500	-.1100
150.000	.1470	.0070	-.1300

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT-31)

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1800	-.1670
180.000	.1620		

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2536	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3250	1.2040	.5440	.0620	-.2580	-.3350	-.4350	-.3740	.1350	.1300	-.0790	-.2940	-.1040	.0120	.0280
30.000	1.3250		.4970	.0380	-.2980	-.3690	-.4620	-.1660	.1150	.0660	-.1510	-.2490	-.1030	.0150	-.0260
60.000	1.3250		.4650	.0070	-.3130	-.3920	-.4720	-.0390	.1370	.0320	-.4370	-.0760	-.0780	.0090	-.0280
90.000	1.3250	1.1280	.4640	.0000	-.3170	-.3980	-.2860	-.0100	.6120	-.4900	-.2520	-.0110	-.0970	-.1510	-.1180
120.000	1.3250		.4670	.0170	-.3080	-.3800	-.0890	-.0050	.1470	.1540	-.2520	.0060	.0350	-.1160	-.2830
135.000	1.3250							.0070		.2180		.0190		-.1270	
150.000	1.3250		.5130	.0560	-.2850	-.3700	-.0980	.0130	.1450	.2600	-.2410	-.0160	.0100	-.1740	-.3120
165.000	1.3250			.0710	-.2710	-.3570	-.4050	-.0050	.1530	.3710	-.3440		.0260		-.3330
180.000	1.3250	1.2240	.5690	.0920	-.2550	-.3390	-.4240	-.0300	.2150	.4765	-.3440	-.1280	.0620	-.1320	-.2830
270.000	1.3250	1.2940													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0800	-.0340	-.0560
30.000	-.0800	-.0090	-.0820
60.000	-.0350	-.0040	-.0820
90.000			-.1490
120.000	.1010	.0000	-.1490
135.000	.1010	-.0160	-.1620
150.000	.1160	-.0750	-.1750
165.000		-.2360	-.1890
180.000	.1420		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBMT41)

MACH (1) = 1.100 BETAT (5) = 8.250

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2850	1.1620	.5160	.0650	-.2770	-.3530	-.4470	-.3920	.0910	.0620	-.1380	-.2330	-.1530	-.0920	-.0450
30.000	1.2850		.4270	-.0210	-.3420	-.4060	-.5000	-.1360	.0950	.1100	-.1370	-.2660	-.1210	-.0300	-.0450
60.000	1.2850		.3780	-.0690	-.3660	-.4380	-.2300	-.0680	.0220	.1000	-.3090	-.1830	-.0890	-.0200	-.0530
90.000	1.2850	1.0130	.3700	-.0830	-.3730	-.4450	-.1010	-.0610	.5590	-.4410	-.1040	-.2280	-.0960	-.1320	-.1490
120.000	1.2850		.3750	-.0630	-.3650	-.4340	-.0550	-.0350	.0660	.1470	-.1330	-.0430	.0030	-.1600	-.3540
135.000	1.2850							-.0300		.2960		.0240		-.1920	
150.000	1.2850		.4370	-.0040	-.3300	-.4120	-.0710	-.0520	.1140	.2400	-.3270	.0120	-.0640	-.2660	-.4120
165.000	1.2850			.0240	-.3110	-.3880	-.4580	-.0730	.1740	.3140	-.4290		-.0670		-.4930
180.000	1.2850	1.1810	.5320	.0670	-.2780	-.3520	-.4430	-.3120	.2470	.4260	-.4280	-.2150	-.0110	-.2310	-.4050
270.000	1.2850	1.3280													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0900	-.0450	-.1000
30.000	-.0390	-.0020	-.0980
60.000	-.0390	-.0030	-.0890
90.000			-.1610
120.000	.0610	-.0150	-.1610
135.000	.0270	-.0170	-.2230
150.000	.0050	-.2170	-.2430
165.000		-.2660	-.2440
180.000	.0260		

MACH (2) = 1.247 BETAT (1) = -8.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3680	1.2570	.5800	.1400	-.1780	-.2500	-.3460	-.3030	-.1820	.1190	-.0150	-.1980	-.1580	-.1180	-.0480
30.000	1.3680		.6830	.2330	-.1060	-.1810	-.2920	-.2400	.0390	-.0090	-.1840	-.2300	-.0970	-.0620	-.0950
60.000	1.3680		.7790	.3090	-.0400	-.1360	-.2290	-.1860	.2800	-.0040	-.4800	-.0860	.0190	.0160	-.0190
90.000	1.3680	1.4050	.8190	.3460	-.0090	-.1100	-.2050	-.1560	.5550	-.3130	-.5140	-.0620	-.1180	-.2600	-.0940
120.000	1.3680		.7820	.3200	-.0340	-.1270	-.2160	-.1550	.3070	.0450	-.2790	.1450	.1780	.1040	-.0560
135.000	1.3680							-.2070		.2030		.0980		.1050	
150.000	1.3680		.6970	.2460	-.0990	-.1860	-.2710	-.2340	.0870	.3790	.0290	-.0960	.1840	.0620	-.0700
165.000	1.3680			.1930	-.1370	-.2230	-.3010	-.2650	.1580	.5150	.0310		.0640		-.1380
180.000	1.3680	1.2580	.5910	.1460	-.1760	-.2560	-.3330	-.2920	.1760	.5420	.0310	-.2690	-.0640	-.0030	-.2550
270.000	1.3680	1.0980													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A (RBNT41)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (2) = 1.247 BETAT (1) = -8.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0840	-.0330	-.0400
30.000	-.0620	-.0280	-.0090
60.000	-.0230	-.0300	-.0220
90.000			-.1410
120.000	.0740	.3390	.0880
135.000	.0230	.3830	.1490
150.000	-.0640	.4240	.1500
165.000		.4260	.1190
180.000	-.3530		

MACH (2) = 1.251 BETAT (2) = -4.080

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4090	1.2900	.6030	.1540	-.1620	-.2330	-.3260	-.2870	-.2000	.1760	.0470	-.1610	-.2070	-.0740	.0080
30.000	1.4090		.6550	.1950	-.1310	-.2030	-.3020	-.2600	.0490	.0620	-.0750	-.2140	-.0470	-.0570	-.0660
60.000	1.4090		.6990	.2360	-.1010	-.1870	-.2740	-.2340	.2340	.0260	-.4490	-.0590	.0210	.0000	-.0490
90.000	1.4090	1.3690	.7230	.2540	-.0870	-.1760	-.2620	-.2090	.5490	-.2990	-.6770	-.0880	-.0610	-.1020	-.1280
120.000	1.4090		.7050	.2420	-.0960	-.1810	-.2660	-.2210	.3260	.1260	-.2340	.0210	.0860	.0860	-.1060
135.000	1.4090							-.2350		.2890		-.1090		.0770	
150.000	1.4090		.6690	.2100	-.1240	-.2090	-.2880	-.2450	.2250	.4160	.0010	-.1280	.1270	.0880	-.1040
165.000	1.4090			.1850	-.1440	-.2230	-.2990	-.2560	.2300	.4610	-.0260		.0200		-.1320
180.000	1.4090	1.2980	.6160	.1540	-.1590	-.2380	-.3170	-.2710	.1200	.4860	-.0250	-.1490	-.1050	.0590	-.1640
270.000	1.4090	1.2140													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0280	-.0310	-.0480
30.000	-.0270	-.0180	-.0220
60.000	-.0060	-.0280	-.0490
90.000			-.1580
120.000	-.0070	.2510	.0340
135.000	-.0730	.2770	.0900
150.000	-.0970	.2830	.0360
165.000		.1620	.0700
180.000	-.2250		

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A (RBNT41)

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK

MACH (2) = 1.246 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4190	1.2970	.6100	.1570	-.1630	-.2360	-.3280	-.2840	-.1750	.1620	.0870	-.1310	-.2110	-.0540	-.0010
30.000	1.4190		.6100	.1500	-.1690	-.2360	-.3300	-.2830	.0570	.1100	-.0280	-.2050	-.0870	-.0580	-.0370
60.000	1.4190		.6130	.1530	-.1620	-.2380	-.3230	-.2820	.1380	.0590	-.4050	-.0470	.0050	-.0430	-.0370
90.000	1.4190	1.2990	.6220	.1590	-.1590	-.2400	-.3200	-.2770	.5700	-.2950	-.5090	-.0920	.0390	-.1270	-.1310
120.000	1.4190		.6200	.1620	-.1550	-.2360	-.3140	-.2720	.2730	.1670	-.2260	-.0380	.1100	.0370	-.1570
135.000	1.4190							-.2750		.3030		-.1280		.0380	
150.000	1.4190		.6280	.1730	-.1540	-.2340	-.3120	-.2720	.1380	.2870	-.0120	-.1100	.0030	.0380	-.1450
165.000	1.4190			.1680	-.1560	-.2340	-.3110	-.2710	.1510	.3060	-.0450		-.0690		-.1450
180.000	1.4190	1.3090	.6310	.1630	-.1570	-.2340	-.3120	-.2710	.1520	.3070	-.0460	-.0470	-.1450	.0680	-.1330
270.000	1.4190	1.3000													

X/LT	.7449	.8526	.9290
PHI			
.000	.0010	-.0250	-.0470
30.000	.0010	-.0140	-.0160
60.000	.0000	-.0240	-.0300
90.000			-.1000
120.000	-.0600	.1400	-.1000
135.000	-.1130	.1400	-.0750
150.000	-.1310	.1090	-.0720
165.000		-.0200	-.0730
180.000	-.1310		

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4060	1.2770	.5950	.1500	-.1680	-.2420	-.3260	-.2960	-.1820	.1690	.0900	-.1690	-.1940	-.0770	.0040
30.000	1.4060		.5470	.1000	-.2030	-.2660	-.3550	-.3130	.0660	.0820	-.0440	-.2200	-.1590	-.0670	-.0350
60.000	1.4060		.5180	.0740	-.2150	-.2900	-.3680	-.3240	.0520	.1050	-.3450	-.0350	-.0510	-.0890	-.0120
90.000	1.4060	1.2030	.5180	.0680	-.2180	-.3000	-.3720	-.1950	.5480	-.3060	-.3470	-.1020	.0160	-.1330	-.1250
120.000	1.4060		.5250	.0820	-.2100	-.2880	-.3620	-.0420	.0640	.2270	-.1490	-.0850	-.0040	.0140	-.1920
135.000	1.4060							-.0740		.1740		-.1010		.0000	
150.000	1.4060		.5690	.1210	-.1920	-.2700	-.3450	-.2460	.1350	.2350	-.0780	-.2060	-.0640	-.0120	-.2020
165.000	1.4060			.1380	-.1780	-.2570	-.3330	-.2680	.1260	.3640	-.1650		-.0960		-.2170
180.000	1.4060	1.3010	.6240	.1560	-.1650	-.2410	-.3290	-.2730	.1740	.5300	-.1660	-.1890	-.0670	.0450	-.1770
270.000	1.4060	1.3670													

X/LT	.7449	.8526	.9290

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT41)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0230	-.0400	-.0410
30.000	-.0230	-.0320	-.0570
60.000	-.0020	-.0330	-.0380
90.000			-.0890
120.000	-.0580	.0270	-.0900
135.000	-.0580	.0310	-.1140
150.000	-.0580	.0270	-.1170
165.000		-.1970	-.1510
180.000	-.2480		

MACH (2) = 1.246 BETAT (5) = 8.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3660	1.2370	.5710	.1310	-.1790	-.2510	-.3460	-.3100	-.1550	.0930	-.0140	-.1960	-.1510	-.1230	-.0580
30.000	1.3660		.4810	.0500	-.2400	-.3040	-.3850	-.3540	.0350	.1680	-.0140	-.2240	-.1880	-.0910	-.0410
60.000	1.3660		.4320	.0040	-.2690	-.3430	-.4090	-.3490	-.0120	.1720	-.2700	-.0440	-.1400	-.0670	-.0260
90.000	1.3660	1.0890	.4230	-.0030	-.2740	-.3510	-.4120	-.0710	.5190	-.2810	-.1550	-.0970	-.1190	-.1160	-.0640
120.000	1.3660		.4300	.0130	-.2670	-.3430	-.4060	-.0440	.0030	.2650	-.1210	-.1580	-.0490	-.0200	-.2340
135.000	1.3660							-.0320		.1100		-.1580		-.0400	
150.000	1.3660		.4930	.0640	-.2370	-.3160	-.3870	-.0290	.0710	.2370	-.1420	-.2620	.0560	-.0880	-.3020
165.000	1.3660			.0990	-.2090	-.2930	-.3660	-.2860	.0610	.3170	-.2700		.0560		-.3650
180.000	1.3660	1.2600	.5690	.1350	-.1820	-.2620	-.3410	-.2950	.1740	.4950	-.2690	-.3050	-.0400	-.0180	-.2540
270.000	1.3660	1.4060													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0470	-.0490	-.0430
30.000	-.0190	-.0380	-.0620
60.000	.0310	-.0420	-.0620
90.000			-.1050
120.000	.0310	.0240	-.1070
135.000	-.0400	.0190	-.1700
150.000	-.1010	-.1390	-.2110
165.000		-.2580	-.2120
180.000	-.3580		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT42) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.190

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2690	1.2450	.6260	.1660	-.2000	-.2830	-.3800	-.3170	.1320	.0900	-.0830	-.1850	-.1290	-.0980	-.0300
30.000	1.2690		.7350	.2500	-.1240	-.2060	-.3150	-.2420	.1670	.0490	-.2060	-.0260	-.0320	-.0290	-.0590
60.000	1.2690		.7890	.3010	-.0810	-.1640	-.2720	.0670	.3580	-.0080	-.4440	.0190	.0560	.0430	.0070
90.000	1.2690	1.3120	.7580	.2750	-.1040	-.1930	-.2970	.2380	.4950	-.4980	-.3760	-.0090	.0810	.0730	.0070
120.000	1.2690		.6520	.1870	-.1840	-.2650	-.3540	.0070	.1930	-.1880	-.2920	.0150	.1060	.0900	-.0570
135.000	1.2690							-.1430		-.0180		.0990		.0430	
150.000	1.2690		.5310	.0770	-.2760	-.3540	-.4380	-.0860	.1060	.1870	-.0710	.0970	.1000	-.0280	-.1010
165.000	1.2690			.0170	-.3180	-.3890	-.4170	-.0550	.0820	.3380	-.1430		.0340		-.1920
180.000	1.2690	1.0860	.4280	-.0290	-.3420	-.4140	-.0730	-.0450	.0450	.3370	-.2190	-.1450	-.0480	-.1810	-.2890
270.000	1.2690	1.0040													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0720	-.0140	-.0650
30.000	-.0060	.0680	-.0310
60.000	.0430	.1040	-.0300
90.000			-.2610
120.000	.1880	.3190	.1260
135.000	.2080	.3610	.1120
150.000	.2200	.3870	.0930
165.000		.3990	.1130
180.000	.0670		

MACH (1) = 1.102 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3120	1.2820	.6570	.1810	-.1840	-.2700	-.3720	-.3090	.2080	.1710	-.0300	-.2160	-.0890	-.0230	.0510
30.000	1.3120		.6990	.2110	-.1590	-.2390	-.3490	-.2790	.2150	.1350	-.1420	-.0720	-.0580	.0170	.0090
60.000	1.3120		.7000	.2110	-.1550	-.2440	-.3440	-.2220	.3740	.0330	-.4110	-.0020	.0060	.0480	.0230
90.000	1.3120	1.2740	.6560	.1740	-.1840	-.2750	-.3740	.0830	.5070	-.5130	-.4090	-.0160	.0700	.0540	-.0250
120.000	1.3120		.5800	.1110	-.2420	-.3230	-.4110	-.0610	.2490	-.1220	-.2360	.0410	.0820	.0420	-.1140
135.000	1.3120							-.0930		.0690		.1420		.0150	
150.000	1.3120		.5070	.0510	-.2950	-.3720	-.4490	-.0470	.1280	.2360	-.2290	.1530	.0890	-.0260	-.1330

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK (RBNT42)

MACH (1) = 1.102 BETAT (2) = -4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.3120			.0120	-.3160	-.3920	-.2160	-.0440	.0820	.3320	-.2000		.0670		-.1470
180.000	1.3120	1.1240	.4560	-.0150	-.3320	-.4030	-.0590	-.0170	.0650	.3190	-.2170	-.0060	.0470	-.0650	-.1920
270.000	1.3120	1.1230													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0480	-.0280	.0080
30.000	-.0110	.0220	-.0060
60.000	.0270	.0550	-.0520
90.000			-.2450
120.000	.1040	.2170	.0420
135.000	.1330	.2370	.0510
150.000	.1710	.2370	.0500
165.000		.1020	.0440
180.000	.1280		

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3240	1.2920	.6650	.1900	-.1800	-.2650	-.3680	-.3030	.2150	.1990	-.0090	-.2080	-.0530	.0280	.0680
30.000	1.3240		.6450	.1680	-.2010	-.2820	-.3830	-.3170	.2040	.1720	-.0950	-.1420	-.0570	.0270	.0090
60.000	1.3240		.6020	.1280	-.2270	-.3110	-.4050	-.2480	.3200	.0780	-.3690	-.0210	-.0310	.0340	.0180
90.000	1.3240	1.2080	.5550	.0840	-.2610	-.3480	-.4360	.0110	.5370	-.5250	-.3700	-.0070	.0590	.0190	-.0720
120.000	1.3240		.5020	.0400	-.2970	-.3750	-.4540	.0000	.2710	-.0670	-.2090	.0810	.0730	-.0100	-.1780
135.000	1.3240							-.0360		.1300		.1250		-.0360	
150.000	1.3240		.4750	.0180	-.3190	-.3930	-.1800	-.0410	.0900	.2370	-.1480	.0980	.0660	-.0390	-.1750
165.000	1.3240			.0030	-.3240	-.3970	-.0800	-.0220	.0910	.2600	-.0500		.0670		-.1620
180.000	1.3240	1.1380	.4670	-.0050	-.3270	-.3980	-.0570	-.0130	.0930	.2570	-.0540	.0910	.0760	-.0410	-.1480
270.000	1.3240	1.2140													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0270	-.0470	.0130
30.000	-.0270	-.0280	-.0140
60.000	.0480	-.0020	-.0430
90.000			-.1700
120.000	.0730	.1080	-.0440
135.000	.1000	.0973	-.0510
150.000	.1210	.0450	-.0720

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT42)

AMES 11-7D7 IA9 CBA + S3 + T9 EXTERNAL TANK

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1550	-.0990
180.000	.1410		

MACH (1) = 1.099 BETAT (4) = 4.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3120	1.2720	.6480	.1800	-.1840	-.2700	-.3740	-.3110	.2100	.1680	-.0340	-.2150	-.1090	-.0160	.0490
30.000	1.3120		.5770	.1110	-.2480	-.3230	-.4210	-.3570	.1790	.1710	-.1130	-.2150	-.1070	-.0110	-.0120
60.000	1.3120		.5010	.0430	-.2960	-.3750	-.4580	-.0190	.1890	.1470	-.2960	-.0910	-.0940	.0020	.0030
90.000	1.3120	1.1190	.4540	-.0090	-.3280	-.4100	-.4840	-.0270	.5800	-.5200	-.3260	-.0380	.0070	-.0190	-.1210
120.000	1.3120		.4180	-.0300	-.3450	-.4190	-.2300	-.0440	.1840	-.0030	-.2460	.0640	.0490	-.0650	-.2300
135.000	1.3120							-.0400		.1800		.0450		-.0820	
150.000	1.3120		.4240	-.0240	-.3490	-.4210	-.0700	-.0310	.0790	.2150	-.1520	.0230	.0210	-.1140	-.2310
165.000	1.3120			-.0230	-.3430	-.4190	-.0390	-.0220	.0900	.2170	-.2230		.0170		-.2450
180.000	1.3120	1.1300	.4580	-.0140	-.3360	-.4070	-.0560	-.0230	.0660	.3320	-.2020	-.0010	.0350	-.0930	-.2060
270.000	1.3120	1.2800													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0450	-.0340	.0090
30.000	-.0170	-.0260	-.0270
60.000	.0420	.0130	-.0570
90.000			-.1300
120.000	.0720	.0630	-.1090
135.000	.0950	.0420	-.1080
150.000	.0990	-.0180	-.1390
165.000		-.1290	-.1550
180.000	.1210		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT42)

MACH (1) = 1.100 BETAT (5) = 0.260

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2710	1.2340	.6260	.1640	-.1940	-.2780	-.3650	-.3250	.1200	.0830	-.0850	-.1550	-.1320	-.1020	-.0380
30.000	1.2710		.5020	.0510	-.2920	-.3640	-.4640	-.3900	.1540	.1540	-.0840	-.2330	-.1500	-.0770	-.0710
60.000	1.2710		.4070	-.0390	-.3490	-.4300	-.2400	-.0560	.0330	.1340	-.1780	-.1830	-.1330	-.0480	-.0400
90.000	1.2710	1.0090	.3620	-.0840	-.3770	-.4530	-.1090	-.0640	.5100	-.4780	-.1950	-.2200	-.0130	-.0580	-.1470
120.000	1.2710		.3380	-.0960	-.3820	-.4540	-.0960	-.0630	.0570	.0740	-.0810	-.0990	.0310	-.1010	-.2790
135.000	1.2710							-.0610		.1460		-.0340		-.1330	
150.000	1.2710		.3640	-.0720	-.3770	-.4450	-.0630	-.0450	.0560	.2110	-.2820	-.1060	-.0070	-.1820	-.3110
165.000	1.2710			-.0550	-.3630	-.4390	-.1060	-.0690	.0580	.2780	-.4140		-.0270		-.3980
180.000	1.2710	1.0860	.4230	-.0260	-.3490	-.4230	-.4780	-.0770	.0730	.3930	-.4190	-.2390	.0240	-.1870	-.2980
270.000	1.2710	1.3190													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0720	-.0100	-.0870
30.000	-.0500	-.0150	-.0690
60.000	.0400	.0270	-.0850
90.000			-.1450
120.000	.0920	.0380	-.1450
135.000	.0820	-.0030	-.1800
150.000	.0710	-.1980	-.2050
165.000		-.2320	-.2020
180.000	.0440		

MACH (2) = 1.245 BETAT (1) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3480	1.3210	.6840	.2270	-.1080	-.1870	-.2860	-.2450	-.1930	.1360	.0110	-.1370	-.1190	-.1020	-.0780
30.000	1.3480		.7900	.3250	-.0330	-.1110	-.2180	-.1750	.1550	.0740	-.1320	-.1200	-.0060	-.0280	-.0890
60.000	1.3480		.8420	.3650	.0070	-.0780	-.1850	-.1410	.3820	.1060	-.3650	-.0500	.0410	.0450	.0060
90.000	1.3480	1.3930	.8140	.3390	-.0160	-.1080	-.2060	-.1630	.5370	-.3120	-.3790	-.0700	.0520	.0880	.0060
120.000	1.3480		.7070	.2520	-.0950	-.1780	-.2600	-.2250	.1670	-.1280	-.1160	-.0770	.0290	.1000	.0050
135.000	1.3480							-.2630		-.0380		-.0660		.0840	
150.000	1.3480		.5860	.1460	-.1820	-.2580	-.3370	-.3020	.0740	.2540	.0100	-.0860	.1060	.0440	.0050
165.000	1.3480			.0860	-.2210	-.2940	-.3640	-.3310	.0610	.3960	.0100		-.0190		-.0520
180.000	1.3480	1.1800	.4810	.0450	-.2500	-.3210	-.3940	-.3500	.0390	.4020	.0100	-.2130	-.1970	-.1560	-.1440
270.000	1.3480	1.0780													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT42)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (2) = 1.245 BETAT (1) = -8.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0770	.0050	-.0190
30.000	-.0320	.0300	.0260
60.000	.0090	.0360	.0270
90.000			-.2880
120.000	.1030	.3320	.2160
135.000	.0810	.3970	.2030
150.000	.0430	.4230	.1890
165.000		.4410	.2090
180.000	-.2480		

MACH (2) = 1.246 BETAT (2) = -4.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3890	1.3560	.7100	.2510	-.0890	-.1690	-.2720	-.2300	-.1590	.2280	.0620	-.1070	-.1450	-.0570	-.0090
30.000	1.3890		.7520	.2800	-.0640	-.1450	-.2490	-.2030	.0960	.1560	.0080	-.1360	-.0210	-.0370	-.0550
60.000	1.3890		.7550	.2810	-.0590	-.1470	-.2450	-.2030	.3120	.1360	-.3340	-.0420	.0300	.0090	-.0210
90.000	1.3890	1.3490	.7110	.2440	-.0930	-.1820	-.2710	-.2270	.5260	-.3220	-.4280	-.0440	.0590	.0740	-.0170
120.000	1.3890		.6330	.1810	-.1460	-.2260	-.3060	-.2680	.1560	-.0410	-.1500	-.0810	.0560	.0750	-.0370
135.000	1.3890							-.2920		.1430		-.1730		.0740	
150.000	1.3890		.5620	.1170	-.1990	-.2720	-.3460	-.3060	.1300	.2870	-.0350	-.0870	.1150	.0900	-.0330
165.000	1.3890			.0870	-.2170	-.2900	-.3620	-.3190	.0900	.3490	-.0480		-.0090		-.0810
180.000	1.3890	1.1950	.5070	.0610	-.2280	-.3030	-.3750	-.2070	.0470	.3090	-.0490	-.1260	-.1640	.1010	-.1240
270.000	1.3890	1.1950													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0190	.0050	-.0040
30.000	.0130	.0290	.0210
60.000	.0360	.0370	-.0030
90.000			-.2200
120.000	.0010	.2490	.1220
135.000	.0010	.2770	.1250
150.000	-.0440	.2780	.1420
165.000		.1730	.1600
180.000	-.1430		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT42)

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4040	1.3680	.7220	.2580	-.0830	-.1600	-.2620	-.2250	-.1440	.2560	.1170	-.0680	-.1930	-.0900	-.0030
30.000	1.4040		.7020	.2450	-.0990	-.1740	-.2740	-.2320	.0700	.1660	.0940	-.1320	-.0720	-.0560	-.0580
60.000	1.4040		.6610	.2000	-.1260	-.2070	-.2950	-.2570	.2220	.1810	-.2750	-.0370	-.0130	-.0420	-.0290
90.000	1.4040	1.2860	.6110	.1520	-.1590	-.2460	-.3280	-.2750	.5600	-.3200	-.4450	-.0410	.0010	.0260	-.0290
120.000	1.4040		.5570	.1160	-.1940	-.2730	-.3440	-.2960	.1750	.0080	-.2320	-.0350	.0240	.0660	-.0920
135.000	1.4040							-.2880		.1500		-.1060		.0670	
150.000	1.4040		.5270	.0910	-.2140	-.2910	-.3590	-.0860	.0740	.1950	.0010	-.1310	-.0010	.0870	-.0920
165.000	1.4040			.0790	-.2210	-.2930	-.3600	-.0450	.0750	.1930	.0140		-.0720		-.0690
180.000	1.4040	1.2130	.5170	.0710	-.2220	-.2970	-.3680	-.1320	.0590	.2030	.0220	-.0950	-.2320	.1230	-.0860
270.000	1.4040	1.2910													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0040	.0110	-.0060
30.000	-.0040	.0200	-.0040
60.000	.0700	.0330	-.0060
90.000			-.1090
120.000	-.0160	.1320	.0150
135.000	-.0180	.1310	.0270
150.000	-.0340	.0980	.0020
165.000		-.0280	-.0720
180.000	-.0510		

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3940	1.3480	.7040	.2450	-.0930	-.1680	-.2650	-.2290	-.1580	.2470	.0820	-.1090	-.1380	-.0750	-.0190
30.000	1.3940		.6320	.1800	-.1460	-.2150	-.3130	-.2710	.0760	.2120	.0820	-.1640	-.1280	-.0740	-.0560
60.000	1.3940		.5600	.1100	-.1890	-.2660	-.3470	-.3120	.0930	.2360	-.2160	-.0320	-.0710	-.0730	-.0340
90.000	1.3940	1.1960	.5130	.0640	-.2200	-.3010	-.3750	-.3290	.5610	-.3200	-.4010	-.0290	-.0840	.0010	-.0550
120.000	1.3940		.4760	.0470	-.2400	-.3100	-.3770	-.3080	.0630	.0850	-.2930	-.0290	-.0040	.0480	-.1370
135.000	1.3940							-.1480		.1960		-.1160		.0450	
150.000	1.3940		.4810	.0530	-.2420	-.3120	-.3770	-.0520	.0520	.1680	-.0110	-.2120	-.0030	.0320	-.1540
165.000	1.3940			.0550	-.2350	-.3090	-.3750	-.0430	.0630	.1920	-.1010		-.1440		-.1580
180.000	1.3940	1.2090	.5140	.0650	-.2320	-.3010	-.3750	-.1880	.0390	.2990	-.1030	-.1370	-.1730	.0880	-.1260
270.000	1.3940	1.3580													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBHT42)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0240	.0010	-.0050
30.000	-.0290	-.0050	-.0280
60.000	.0860	-.0080	-.0280
90.000			-.0820
120.000	-.0050	.0460	-.0240
135.000	-.0050	.0100	-.0380
150.000	.0070	-.0600	-.0780
165.000		-.2320	-.1350
180.000	-.1470		

MACH (2) = 1.246 BETAT (5) = 8.210

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1741	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3520	1.3060	.6770	.2260	-.1100	-.1880	-.2850	-.2480	-.1140	.0870	.0290	-.1330	-.1090	-.1100	-.0870
30.000	1.3520		.5540	.1130	-.2020	-.2690	-.3520	-.3220	-.1120	.2360	.0290	-.1860	-.1390	-.1140	-.0810
60.000	1.3520		.4600	.0240	-.2620	-.3270	-.4020	-.3670	.0290	.2930	-.1390	-.0670	-.1380	-.1150	-.0550
90.000	1.3520	1.0790	.4140	-.0160	-.2870	-.3550	-.4180	-.0980	.5460	-.3070	-.2570	-.0430	-.2520	-.0170	-.0770
120.000	1.3520		.3870	-.0250	-.2920	-.3540	-.4140	-.0790	.0210	.1360	-.2050	-.1090	-.0960	.0150	-.1740
135.000	1.3520							-.0650		.1390		-.1480		-.0010	
150.000	1.3520		.4180	-.0020	-.2840	-.3470	-.4130	-.0480	.0560	.2560	-.1070	-.2640	-.0700	-.0160	-.1870
165.000	1.3520			.0150	-.2710	-.3410	-.4050	-.2350	.0770	.2540	-.2190		-.1940		-.2480
180.000	1.3520	1.1680	.4800	.0450	-.2520	-.3200	-.3960	-.3450	.0580	.3950	-.2200	-.2500	-.1630	-.0300	-.1560
270.000	1.3520	1.3960													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0640	-.0030	-.0280
30.000	.0210	-.0140	-.0460
60.000	.0840	-.0090	-.0460
90.000			-.1170
120.000	.0470	.0660	-.1170
135.000	.0470	.0440	-.1340
150.000	.0250	-.0930	-.1660
165.000		-.2260	-.1810
180.000	-.2660		

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A (RBMT43) (27 APR 73)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .300
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.160

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2280	1.2790	.7230	.2570	-.1200	-.2100	-.3140	-.2450	.1360	.1190	-.0080	-.0800	-.0680	-.0730	-.0410
30.000	1.2280		.8280	.3420	-.0410	-.1330	-.2470	-.1670	.2320	.1180	-.1360	.0390	-.0010	.0130	-.0300
60.000	1.2280		.8290	.3500	-.0390	-.1250	-.2430	.1490	.4300	.0810	-.3030	.0540	.0310	.0630	.0570
90.000	1.2280	1.2740	.7300	.2550	-.1190	-.2090	-.3150	.2380	.4280	-.3610	-.3560	-.1710	-.0120	.0780	.0340
120.000	1.2280		.5620	.1080	-.2460	-.3230	-.4120	-.0580	.0540	-.3460	-.3510	-.1710	.0600	.1160	.0070
135.000	1.2280							-.1110		-.2330		-.1020		.1140	
150.000	1.2280		.4210	-.0200	-.3550	-.4220	-.4550	-.0460	-.0010	.0680	-.0710	-.0510	.0400	.0370	-.0310
165.000	1.2280			-.0750	-.3890	-.4550	-.0990	-.0820	.0070	.2210	-.1220		-.0740		-.0940
180.000	1.2280	.9780	.3310	-.1140	-.4050	-.4710	-.0750	-.0720	-.0090	.2050	-.1880	-.1540	-.0240	-.1270	-.2460
270.000	1.2280	.9680													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0300	.0500	-.0300
30.000	.0530	.1370	.0370
60.000	.1030	.1870	.0360
90.000			-.1330
120.000	.1950	.3310	.1070
135.000	.2330	.3720	.1110
150.000	.2430	.4010	.0960
165.000		.4050	.1110
180.000	.0660		

MACH (1) = 1.097 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2650	1.3170	.7560	.2800	-.1030	-.1910	-.3050	-.2360	.2280	.2080	.0260	-.1060	-.0310	-.0330	.0440
30.000	1.2650		.7850	.3010	-.0890	-.1720	-.2880	-.2130	.2690	.1890	-.0740	-.0010	-.0280	.0030	.0270
60.000	1.2650		.7330	.2570	-.1180	-.2100	-.3160	-.1980	.4300	.1160	-.2710	.0010	-.0190	.0390	.0630
90.000	1.2650	1.2520	.6260	.1580	-.2030	-.2940	-.3880	.0710	.4360	-.5860	-.3590	-.2520	-.0260	.0800	.0040
120.000	1.2650		.4970	.0450	-.2990	-.3780	-.4600	-.0590	.0930	-.2980	-.3760	-.1490	.0650	.0780	-.0360
135.000	1.2650							-.0540		-.0840		-.0740		.0500	
150.000	1.2650		.4040	-.0360	-.3590	-.4400	-.1490	-.0850	.0200	.0970	-.1060	-.0520	.0720	.0100	-.0580

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT43)

MACH (1) = 1.097 BETAT (2) = -4.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.2650			-.0760	-.3810	-.4510	-.0750	-.0710	.0090	.1850	-.0470		.0480		-.0790
180.000	1.2650	1.0070	.3520	-.0990	-.3900	-.4560	-.0690	-.0640	.0240	.1850	-.0900	-.0460	.0330	-.0400	-.1230
270.000	1.2650	1.0810													

X/LT	.7449	.8526	.9290
PHI			
.000	.0000	.0140	.0150
30.000	.0340	.0380	.0310
60.000	.0990	.0950	.0020
90.000			-.1710
120.000	.1240	.2550	.0480
135.000	.1520	.2700	.0490
150.000	.1730	.2730	.0500
165.000		.1840	.0530
180.000	.1130		

MACH (1) = 1.101 BETAT (3) = .010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2820	1.3260	.7620	.2830	-.0990	-.1890	-.3000	-.2360	.2470	.2280	.0420	-.1150	-.0070	-.0010	.0830
30.000	1.2820		.7230	.2450	-.1410	-.2220	-.3290	-.2620	.2650	.2210	-.0330	-.0480	-.0280	.0070	.0150
60.000	1.2820		.6310	.1560	-.2030	-.2900	-.3870	-.3110	.3770	.1570	-.2170	-.0300	-.0260	.0290	.0410
90.000	1.2820	1.1670	.5240	.0590	-.2820	-.3670	-.4550	-.0130	.4490	-.6120	-.3580	-.2840	-.0070	.0160	-.0560
120.000	1.2820		.4250	-.0220	-.3440	-.4180	-.4960	-.0620	.1410	-.2040	-.3420	-.0480	.0720	.0210	-.1020
135.000	1.2820							-.0720		.0180		.0480		.0090	
150.000	1.2820		.3770	-.0650	-.3760	-.4440	-.1460	-.0900	.0210	.1710	-.0730	.0550	.0630	-.0200	-.0920
165.000	1.2820			-.0840	-.3830	-.4500	-.0880	-.0800	.0210	.1990	-.0050		.0640		-.0920
180.000	1.2820	1.0250	.3650	-.0960	-.3850	-.4530	-.0650	-.0670	.0320	.2020	-.0100	.0500	.0810	-.0030	-.0920
270.000	1.2820	1.1740													

X/LT	.7449	.8526	.9290
PHI			
.000	.0120	-.0080	.0260
30.000	.0410	.0030	.0020
60.000	.0900	.0330	-.0350
90.000			-.1580
120.000	.0890	.1460	-.0210
135.000	.1010	.1450	-.0290
150.000	.1170	.0840	-.0300

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RUNT43)

MACH (1) = 1.101 BETAT (3) = .010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.1260	-.0360
180.000	.1440		

MACH (1) = 1.099 BETAT (4) = 4.150

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0492	.1096	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2730	1.3080	.7450	.2670	-.1130	-.1990	-.3000	-.2580	.2540	.2090	.0190	-.1000	-.0570	-.0310	.0570
30.000	1.2730		.6500	.1730	-.1960	-.2730	-.3730	-.3130	.2610	.2190	-.0310	-.1250	-.0740	-.0580	-.0100
60.000	1.2730		.5240	.0530	-.2820	-.3560	-.4450	-.0310	.2650	.1990	-.1320	-.0940	-.0510	-.0270	.0220
90.000	1.2730	1.0810	.4260	-.0370	-.3540	-.4220	-.4820	-.0610	.5040	-.6100	-.4260	-.1230	.0190	-.0160	-.0870
120.000	1.2730		.3580	-.0870	-.3900	-.4470	-.1900	-.0680	.1050	-.1310	-.3050	.0380	.0420	-.0410	-.1700
135.000	1.2730							-.0700		.1120		.0480		-.0480	
150.000	1.2730		.3430	-.1000	-.4000	-.4480	-.0990	-.0690	.0280	.1730	-.0970	.0010	.0380	-.0760	-.1700
165.000	1.2730			-.1030	-.4000	-.4470	-.0740	-.0620	.0290	.2040	-.0350		.0350		-.1700
180.000	1.2730	1.0210	.3590	-.0990	-.3990	-.4430	-.0600	-.0510	.0340	.2050	-.0480	-.0490	.0380	-.0490	-.1350
270.000	1.2730	1.2460													

X/LT	.7449	.8526	.9290
PHI			
.000	.0020	.0130	.0270
30.000	.0050	.0010	-.0010
60.000	.0630	.0440	-.0470
90.000			-.1160
120.000	.0690	.1060	-.0840
135.000	.0790	.0820	-.0880
150.000	.0960	.0130	-.1140
165.000		-.1400	-.1360
180.000	.1070		

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT43)

MACH (1) = 1.099 BETAT (5) = 8.300

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2300	1.2630	.7230	.2580	-.1240	-.2060	-.3150	-.2460	.0510	.1140	-.0310	-.0390	-.0810	-.0840	-.0490
30.000	1.2300		.5620	.1090	-.2320	-.3260	-.4280	-.3720	.2000	.1770	-.0310	-.1650	-.1360	-.1290	-.1080
60.000	1.2300		.4140	-.0360	-.3510	-.4260	-.5040	-.0690	.2400	.1470	-.1020	-.1530	-.0910	-.0790	-.0290
90.000	1.2300	.9660	.3290	-.1150	-.4060	-.4750	-.1430	-.1100	.4460	-.5760	-.5690	-.1980	-.0880	-.1060	-.1750
120.000	1.2300		.2830	-.1360	-.4160	-.4760	-.1160	-.0850	-.0310	-.0600	-.1230	-.0590	.0040	-.0910	-.2310
135.000	1.2300							-.0780		.0880		-.0600		-.1110	
150.000	1.2300		.2900	-.1320	-.4190	-.4800	-.1140	-.0840	.0110	.1360	-.1080	-.1150	-.0180	-.1350	-.1990
165.000	1.2300			-.1300	-.4200	-.4800	-.0980	-.0960	-.0080	.1660	-.1430		-.0170		-.2850
180.000	1.2300	.9810	.3300	-.1130	-.4120	-.4730	-.0780	-.0880	-.0060	.2050	-.1990	-.2030	-.0130	-.1410	-.2270
270.000	1.2300	1.2800													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0220	.0320	-.0400
30.000	-.0190	-.0080	-.0350
60.000	.0800	.0380	-.0660
90.000			-.1440
120.000	.0800	.0290	-.1310
135.000	.1060	-.0310	-.1790
150.000	.0980	-.2090	-.1920
165.000		-.2540	-.1930
180.000	.0540		

MACH (2) = 1.245 BETAT (1) = -8.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3090	1.3570	.7780	.3230	-.0260	-.1120	-.2240	-.1820	-.0770	.1380	.0600	-.0640	-.0480	-.0470	-.0380
30.000	1.3090		.8620	.4160	.0430	-.0380	-.1610	-.1090	.2440	.1550	-.0250	-.0240	.0440	.0190	-.0300
60.000	1.3090		.8840	.4180	.0520	-.0470	-.1520	-.1090	.4720	.1940	-.2410	.0120	.0730	.0570	.0300
90.000	1.3090	1.3510	.7870	.3260	-.0280	-.1190	-.2160	-.1750	.4990	-.3540	-.3310	-.1750	-.0810	.0550	.0730
120.000	1.3090		.6220	.1860	-.1470	-.2300	-.3060	-.2730	.0340	-.2960	-.3750	-.1750	.0010	.1130	.0700
135.000	1.3090							-.3220		-.1790		-.1550		.1020	
150.000	1.3090		.4760	.0600	-.2450	-.3220	-.3910	-.3540	-.0210	-.0400	.1070	-.1240	.0030	.0520	.0690
165.000	1.3090			.0070	-.2770	-.3530	-.4150	-.3490	.0040	.1920	.0390		-.0160		.0460
180.000	1.3090	1.0310	.3860	-.0280	-.2940	-.3660	-.4310	-.0970	-.0180	.2180	.0340	-.1250	-.2060	-.2360	-.0620
270.000	1.3090	1.0490													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT43)

MACH (2) = 1.245 BETAT (1) = -8.110

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0860	.0530	.0300
30.000	.0040	.0480	.0910
60.000	.1000	.0830	.0910
90.000			-.2740
120.000	.1690	.3680	.2190
135.000	.1760	.4120	.2160
150.000	.1990	.4360	.1910
165.000		.4390	.2090
180.000	.0540		

MACH (2) = 1.249 BETAT (2) = -4.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3520	1.3970	.8120	.3470	-.0120	-.0960	-.2060	-.1670	-.0980	.2660	.1490	-.0370	-.0550	-.0190	-.0010
30.000	1.3520		.8430	.3660	.0050	-.0770	-.1900	-.1430	.1590	.1990	.0810	-.0470	.0170	-.0090	-.0370
60.000	1.3520		.7900	.3230	-.0280	-.1180	-.2140	-.1760	.3860	.2210	-.2130	.0150	.0360	.0200	-.0020
90.000	1.3520	1.3150	.6880	.2280	-.1060	-.1960	-.2830	-.2410	.4840	-.3630	-.3640	-.2250	-.0600	.0520	.0470
120.000	1.3520		.5580	.1240	-.1940	-.2740	-.3480	-.3080	.0340	-.2180	-.2780	-.2080	-.0030	.0990	.0100
135.000	1.3520							-.3380		-.0750		-.2150		.0750	
150.000	1.3520		.4640	.0420	-.2550	-.3250	-.3970	-.3520	.0470	.1580	.0270	-.1250	-.0630	.0950	-.0100
165.000	1.3520			.0080	-.2750	-.3450	-.4050	-.2590	.0230	.2250	-.0320		-.1400		-.0280
180.000	1.3520	1.0880	.4110	-.0130	-.2820	-.3450	-.4130	-.0590	.0080	.2010	-.0380	-.0780	-.2280	.1380	-.0680
270.000	1.3520	1.1620													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0400	.0320	.0280
30.000	.0120	.0610	.0510
60.000	.0870	.0630	.0460
90.000			-.2180
120.000	.0870	.2980	.1640
135.000	.1060	.3160	.1410
150.000	.1210	.3060	.1270
165.000		.1760	.1400
180.000	.1150		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT43)

MACH (2) = 1.246 BETAT (3) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3670	1.4060	.8180	.3510	-.0120	-.0940	-.2020	-.1620	-.0570	.2990	.1750	-.0290	-.0610	-.0120	.0190
30.000	1.3670		.7830	.3170	-.0450	-.1200	-.2260	-.1850	.0870	.2550	.1510	-.0610	-.0900	-.0230	-.0480
60.000	1.3670		.6910	.2280	-.1070	-.1860	-.2790	-.2430	.2620	.2630	-.1580	.0170	-.0190	-.0140	-.0270
90.000	1.3670	1.2480	.5850	.1340	-.1810	-.2600	-.3410	-.3030	.4970	-.3780	-.3960	-.3520	-.0600	.0400	-.0020
120.000	1.3670		.4880	.0600	-.2400	-.3050	-.3790	-.3390	.0860	-.1540	-.3010	-.1490	.0430	.0770	-.0650
135.000	1.3670							-.2610		.0420		-.1980		.0810	
150.000	1.3670		.4400	.0180	-.2660	-.3370	-.3990	-.0640	.0000	.1470	-.0100	-.1490	.0100	.0810	-.0360
165.000	1.3670			.0040	-.2740	-.3380	-.3500	-.0460	.0030	.1600	.0610		-.0980		-.0220
180.000	1.3670	1.1020	.4250	-.0060	-.2750	-.3380	-.3550	-.0470	.0030	.1680	.0550	-.0610	-.1840	.1260	-.0180
270.000	1.3670	1.2560													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0170	.0360	.0300
30.000	.0080	.0430	.0290
60.000	.0760	.0430	.0010
90.000			-.0810
120.000	.0500	.1760	.0170
135.000	.0730	.1660	.0500
150.000	.1050	.1050	.0310
165.000		-.0400	.0290
180.000	.1310		

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3570	1.3870	.8010	.3380	-.0200	-.1070	-.2080	-.1710	-.0960	.2870	.1240	-.0450	-.0510	-.0260	.0050
30.000	1.3570		.7020	.2420	-.0980	-.1740	-.2710	-.2320	-.0540	.2780	.1240	-.0880	-.0690	-.0570	-.0810
60.000	1.3570		.5810	.1340	-.1790	-.2600	-.3400	-.3100	.1400	.3460	-.0910	-.0100	-.0610	-.0530	-.0380
90.000	1.3570	1.1630	.4850	.0470	-.2460	-.3230	-.3930	-.3240	.4990	-.3790	-.4190	-.3580	-.1020	-.0240	-.0400
120.000	1.3570		.4170	-.0050	-.2800	-.3480	-.4140	-.2660	.0180	-.0820	-.2320	-.0790	.0270	.0580	-.0920
135.000	1.3570							-.1040		.1270		-.1660		.0590	
150.000	1.3570		.4010	-.0150	-.2900	-.3560	-.4120	-.0740	-.0070	.1280	.0120	-.1860	-.0540	.0590	-.0920
165.000	1.3570			-.0190	-.2910	-.3540	-.3990	-.0570	.0060	.1840	.0450		-.2190		-.0950
180.000	1.3570	1.1010	.4190	-.0150	-.2880	-.3520	-.4140	-.0560	.0100	.1840	-.0020	-.0800	-.2340	.1270	-.0870
270.000	1.3570	1.3220													

X/LT	.7449	.8526	.9290

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

ANES 11-7D7 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT43)

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0290	.0280	.0220
30.000	-.0290	.0130	.0010
60.000	.0740	.0230	-.0260
90.000			-.0810
120.000	.0420	.1030	-.0670
135.000	.0720	.1060	-.0270
150.000	.1120	.1040	-.0810
165.000		-.2220	-.1150
180.000	.1680		

MACH (2) = 1.246 BETAT (5) = 8.290

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3150	1.3460	.7770	.3200	-.0320	-.1170	-.2190	-.1860	-.0710	.0230	.0650	-.0540	-.0490	-.0500	-.0360
30.000	1.3150		.6170	.1730	-.1560	-.2260	-.3170	-.2920	-.2240	.2680	.0660	-.1110	-.0980	-.1030	-.1390
60.000	1.3150		.4680	.0420	-.2550	-.3300	-.4020	-.3770	.1280	.2160	-.0350	-.0620	-.0930	-.0740	-.0500
90.000	1.3150	1.0450	.3820	-.0370	-.3040	-.3750	-.4360	-.0900	.4520	-.3760	-.3970	-.2720	-.2070	-.0690	-.0670
120.000	1.3150		.3380	-.0630	-.3190	-.3760	-.4330	-.0850	-.0240	-.0170	-.1560	-.0850	-.0100	.0160	-.1040
135.000	1.3150							-.0840		.1140		-.1300		.0040	
150.000	1.3150		.3450	-.0560	-.3190	-.3810	-.4150	-.0950	-.0020	.1040	-.0240	-.1980	-.1110	-.0110	-.1040
165.000	1.3150			-.0530	-.3170	-.3810	-.3600	-.0800	-.0310	.1540	-.1350		-.2880		-.1670
180.000	1.3150	1.0610	.3860	-.0310	-.3100	-.3760	-.4030	-.0770	-.0220	.1730	-.1310	-.1110	-.2080	-.1730	-.1130
270.000	1.3150	1.3620													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0830	.0370	.0180
30.000	-.0370	.0030	-.0190
60.000	.0830	.0190	-.0430
90.000			-.0850
120.000	.0830	.0500	-.0820
135.000	.0960	.0060	-.1250
150.000	.1230	-.1430	-.1590
165.000		-.2180	-.1580
180.000	.0980		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT44) (27 APR 73)

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = -1.200
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .600 ALPHAT(1) = -8.050

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0200	.7120	.0410	-.3380	-.4140	-.3770	-.2520	-.1420	-.1110	-.1030	-.0900	-.0650	-.0530	-.0470	-.0220
30.000	1.0200		.0500	-.3460	-.4140	-.3810	-.2620	-.1510	-.1520	-.1590	-.0950	-.0870	-.0740	-.0560	-.0750
60.000	1.0200		.1100	-.2920	-.3730	-.3420	-.2300	-.1420	-.2560	-.4550	-.1910	-.1460	-.0940	-.1110	-.1020
90.000	1.0200	.8900	.2170	-.2060	-.2930	-.2480	-.1090	.0270	.0570	-1.3910	-.7680	-.4630	-.2560	-.1620	-.1030
120.000	1.0200		.3350	-.0860	-.2320	-.1980	-.0690	.0500	.1860	-.0310	-.0700	-.0740	-.0750	-.0570	-.0440
135.000	1.0200							.0320		.0270		-.0900		-.0600	
150.000	1.0200		.4630	.0260	-.1690	-.1570	-.0630	.0360	.1540	.0600	-.0840	-.1000	-.1180	-.0930	-.0440
165.000	1.0200			.0510	-.1540	-.1450	-.0500	.0470	.1970	.1400	-.1210		-.1280		-.0450
180.000	1.0200	1.0840	.5060	.0600	-.1470	-.1310	-.0500	.0590	.2230	.2400	-.1270	-.1260	-.1230	-.0940	-.0470
270.000	1.0200	.8920													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0830	-.1210	-.4240
30.000	-.0830	-.1240	-.4190
60.000	-.0780	-.1480	-.4360
90.000			-.5010
120.000	-.0290	-.2410	-.5010
135.000	-.0280	-.2440	-.4440
150.000	-.0370	-.2730	-.3570
165.000		-.3290	-.2190
180.000	-.0330		

MACH (1) = .600 ALPHAT(2) = -5.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0490	.7940	.0960	-.2950	-.3890	-.3550	-.2400	-.1370	-.0960	-.1020	-.0880	-.0700	-.0560	-.0480	-.0300
30.000	1.0490		.1150	-.3030	-.3820	-.3510	-.2430	-.1350	-.1160	-.1470	-.0890	-.0820	-.0530	-.0530	-.0870
60.000	1.0490		.1620	-.2480	-.3390	-.3200	-.1980	-.0990	-.1820	-.4060	-.1730	-.0840	-.1100	-.0640	-.0900
90.000	1.0490	.9230	.2440	-.1780	-.2710	-.2250	-.0780	.0590	.1270	-1.2240	-.6100	-.4190	-.2640	-.1770	-.0920
120.000	1.0490		.3320	-.0980	-.2230	-.1970	-.0660	.0570	.1600	-.0680	-.0880	-.0830	-.0840	-.0700	-.0500
135.000	1.0490							.0340		.0110		-.0900		-.0740	
150.000	1.0490		.4190	-.0120	-.1910	-.1810	-.0790	.0280	.1330	.0480	-.0850	-.1070	-.1170	-.1020	-.0480

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBNT44)

MACH (1) = .600 ALPHAT(2) = -5.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000	1.0490			.0050	-.1830	-.1770	-.0750	.0290	.1680	.1300	-.1410		-.1370		-.0470
180.000	1.0490	1.0660	.4520	.0050	-.1760	-.1700	-.0730	.0340	.1950	.2320	-.1390	-.1320	-.1350	-.1040	-.0480
270.000	1.0490	.9200													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0870	-.1070	-.3710
30.000	-.0870	-.1120	-.3450
60.000	-.1040	-.1400	-.3630
90.000			-.4610
120.000	-.0250	-.2210	-.4590
135.000	-.0240	-.2240	-.4350
150.000	-.0280	-.2500	-.3810
165.000		-.3180	-.2620
180.000	-.0240		

MACH (1) = .998 ALPHAT(3) = -3.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0730	.8610	.1600	-.2510	-.3660	-.3440	-.2400	-.1290	-.0760	-.0940	-.0860	-.0660	-.0540	-.0450	-.0280
30.000	1.0730		.1710	-.2560	-.3610	-.3340	-.2350	-.1180	-.0830	-.1360	-.0850	-.0790	-.0530	-.0480	-.0790
60.000	1.0730		.2080	-.2100	-.3090	-.2890	-.1670	-.0660	-.0970	-.3600	-.1540	-.0790	-.0800	-.0770	-.0550
90.000	1.0730	.9450	.2640	-.1590	-.2530	-.2150	-.0570	.0820	.1740	-1.1020	-.4100	-.3200	-.2280	-.1720	-.1080
120.000	1.0730		.3220	-.0990	-.2310	-.1980	-.0680	.0500	.1350	-.1050	-.0960	-.0930	-.0930	-.0760	-.0520
135.000	1.0730							.0430		-.0090		-.0980		-.0790	
150.000	1.0730		.3800	-.0500	-.2150	-.2010	-.0930	.0320	.1150	.0410	-.0990	-.1130	-.1280	-.1070	-.0500
165.000	1.0730			-.0430	-.2100	-.2010	-.0920	.0310	.1510	.1280	-.0990		-.1380		-.0500
180.000	1.0730	1.0430	.4010	-.0440	-.2090	-.1930	-.0940	.0360	.1750	.2270	-.1440	-.1320	-.1390	-.1100	-.0510
270.000	1.0730	.9470													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0840	-.1050	-.3590
30.000	-.0840	-.1070	-.3660
60.000	-.0880	-.1420	-.3480
90.000			-.4120
120.000	-.0050	-.1850	-.4130
135.000	-.0060	-.2020	-.4350
150.000	-.0190	-.2240	-.3780

DATE 24 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK (RBHT44)

MACH (1) = .598 ALPHAT(3) = -3.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
165.000		-.2950	-.2630
180.000	-.0140		

MACH (1) = .999 ALPHAT(4) = -1.970

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0830	.9170	.2180	-.2120	-.3470	-.3300	-.2210	-.1160	-.0760	-.0830	-.0720	-.0630	-.0520	-.0420	-.0240
30.000	1.0830		.2190	-.2150	-.3440	-.3130	-.2110	-.1010	-.0780	-.1120	-.0690	-.0680	-.0470	-.0470	-.0770
60.000	1.0830		.2380	-.1850	-.2950	-.2650	-.1440	-.0360	-.0650	-.3120	-.1340	-.0780	-.0650	-.0530	-.0470
90.000	1.0830	.9570	.2700	-.1550	-.2470	-.2020	-.0470	.0970	.2080	-1.1870	-.2480	-.1900	-.1520	-.1240	-.0840
120.000	1.0830		.2970	-.1170	-.2420	-.2050	-.0720	.0440	.1070	-.1330	-.0980	-.0940	-.0940	-.0770	-.0570
135.000	1.0830							.0080		-.0200		-.0970		-.0820	
150.000	1.0830		.3280	-.0920	-.2400	-.2190	-.1070	-.0020	.1030	.0390	-.1050	-.1110	-.1290	-.1080	-.0520
165.000	1.0830			-.0940	-.2400	-.2220	-.1060	-.0010	.1420	.1280	-.1400		-.1420		-.0500
180.000	1.0830	1.0090	.3410	-.0960	-.2470	-.2200	-.1070	.0010	.1620	.2280	-.1390	-.1260	-.1400	-.1040	-.0500
270.000	1.0830	.9600													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0670	-.1030	-.3530
30.000	-.0690	-.0960	-.3330
60.000	-.0690	-.1330	-.3600
90.000			-.3950
120.000	-.0060	-.1600	-.3960
135.000	-.0050	-.1630	-.4220
150.000	-.0040	-.1960	-.3620
165.000		-.2630	-.2420
180.000	.0020		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 EXTERNAL TANK (RBMT44)

MACH (1) = .600 ALPHAT(5) = .060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0880	.9690	.2770	-.1610	-.3230	-.3100	-.2180	-.1100	-.0610	-.0700	-.0650	-.0560	-.0450	-.0350	-.0180
30.000	1.0880		.2660	-.1730	-.3190	-.3000	-.2010	-.0910	-.0570	-.0900	-.0650	-.0650	-.0420	-.0400	-.0720
60.000	1.0880		.2700	-.1580	-.2800	-.2500	-.1230	-.0100	-.0120	-.2610	-.1160	-.0640	-.0520	-.0430	-.0340
90.000	1.0880	.9630	.2800	-.1550	-.2410	-.1970	-.0420	.1060	.2230	-1.0780	-.1190	-.0990	-.0740	-.0640	-.0360
120.000	1.0880		.2740	-.1390	-.2480	-.2170	-.0830	.0300	.0770	-.1560	-.0960	-.0910	-.0880	-.0690	-.0380
135.000	1.0880							-.0040		-.0310		-.0920		-.0770	
150.000	1.0880		.2790	-.1400	-.2740	-.2310	-.1210	-.0140	.0940	.0370	-.0970	-.1010	-.1230	-.1010	-.0360
165.000	1.0880			-.1420	-.2710	-.2430	-.1220	-.0140	.1360	.1290	-.1320		-.1340		-.0390
180.000	1.0880	.9710	.2840	-.1480	-.2730	-.2400	-.1260	-.0130	.1540	.2270	-.1330	-.1200	-.1300	-.0980	-.0370
270.000	1.0880	.9660													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0700	-.0900	-.3790
30.000	-.0720	-.0770	-.3700
60.000	-.0320	-.1080	-.3310
90.000			-.3740
120.000	.0010	-.1280	-.3750
135.000	.0010	-.1310	-.3930
150.000	.0110	-.1630	-.3490
165.000		-.2300	-.2230
180.000	.0180		

MACH (1) = .600 ALPHAT(6) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0840	1.0110	.9350	-.1130	-.3020	-.2870	-.1870	-.0930	-.0420	-.0550	-.0520	-.0460	-.0300	-.0260	-.0050
30.000	1.0840		.3210	-.1340	-.2930	-.2800	-.1730	-.0720	-.0340	-.0770	-.0510	-.0550	-.0300	-.0310	-.0840
60.000	1.0840		.3010	-.1370	-.2620	-.2330	-.1070	.0110	.0320	-.2190	-.0960	-.0490	-.0400	-.0330	-.0280
90.000	1.0840	.9570	.2770	-.1540	-.2440	-.1900	-.0420	.1050	.2210	-1.0200	-.1000	-.0730	-.0500	-.0500	-.0270
120.000	1.0840		.2440	-.1660	-.2680	-.2200	-.0970	.0140	.0420	-.1750	-.0920	-.0750	-.0770	-.0660	-.0280
135.000	1.0840							-.0160		-.0370		-.0780		-.0670	
150.000	1.0840		.2300	-.1770	-.2920	-.2510	-.1290	-.0250	.0850	.0370	-.0860	-.0890	-.1100	-.0880	-.0250
165.000	1.0840			-.1890	-.2970	-.2620	-.1350	-.0280	.1260	.1310	-.1180		-.1200		-.0290
180.000	1.0840	.9250	.2280	-.1960	-.3010	-.2530	-.1330	-.0200	.1450	.2320	-.1160	-.1050	-.1160	-.0940	-.0280
270.000	1.0840	.9650													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-7ft IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT44)

MACH (1) = .600 ALPHAT(6) = 2.070

SECTION (.)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0610	-.0770	-.3600
30.000	-.0610	-.0740	-.3550
60.000	-.0290	-.0850	-.3470
90.000			-.3530
120.000	.0020	-.0980	-.3530
135.000	.0020	-.1010	-.3700
150.000	.0220	-.1350	-.3360
165.000		-.1990	-.2210
180.000	.0280		

MACH (1) = .600 ALPHAT(7) = 4.010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.0700	1.0430	.3690	-.0650	-.2660	-.2580	-.1750	-.0770	-.0310	-.0390	-.0430	-.0390	-.0280	-.0230	.0080
30.000	1.0700		.3650	-.0930	-.2700	-.2590	-.1650	-.0550	-.0150	-.0560	-.0380	-.0440	-.0260	-.0280	-.0580
60.000	1.0700		.3170	-.1160	-.2470	-.2200	-.1010	.0220	.0670	-.1830	-.0940	-.0520	-.0390	-.0300	-.0180
90.000	1.0700	.9430	.2640	-.1610	-.2480	-.2000	-.0470	.0950	.2090	-1.0260	-.0950	-.1130	-.1020	-.1340	-.0770
120.000	1.0700		.2110	-.1900	-.2790	-.2390	-.1170	-.0090	.0020	-.2010	-.0920	-.0740	-.0790	.0590	-.0340
135.000	1.0700							-.0290		-.0480		-.0770		-.0630	
150.000	1.0700		.1600	-.2110	-.3050	-.2670	-.1470	-.0380	.0710	.0330	-.0820	-.0820	-.0960	-.0800	-.0170
165.000	1.0700			-.2270	-.3140	-.2740	-.1470	-.0310	.1170	.1380	-.1090		-.1120		-.0170
180.000	1.0700	.8640	.1710	-.2320	-.3150	-.2720	-.1480	-.0270	.1360	.2310	-.1090	-.0910	-.1090	-.0820	-.0180
270.000	1.0700	.9490													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0500	-.0650	-.3210
30.000	-.0500	-.0610	-.3360
60.000	-.0080	-.0660	-.3120
90.000			-.3520
120.000	-.0080	-.0780	-.3730
135.000	-.0070	-.0790	-.3780
150.000	.0380	-.1110	-.3340
165.000		-.1780	-.2320
180.000	.0440		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBHT44)

MACH (1) = .59[illegible] ALPHAT(8) = 6.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0480	1.0680	.4470	-.0070	-.2290	-.2300	-.1490	-.0510	-.0070	-.0170	-.0210	-.0200	-.0110	-.0100	.0200
30.000	1.0480		.4120	-.0390	-.2410	-.2330	-.1420	-.0370	.0080	-.0330	-.0170	-.0310	-.0120	-.0110	-.0370
60.000	1.0480		.3340	-.1050	-.2450	-.2160	-.0930	.0320	.0990	-.1420	-.0770	-.0330	-.0260	-.0170	-.0080
90.000	1.0480	.7210	.2460	-.1730	-.2580	-.2080	-.0620	.0780	.1740	-1.1050	-.2870	-.2170	-.1860	-.1760	-.1170
120.000	1.0480		.1630	-.2260	-.3040	-.2560	-.1410	-.0370	-.0460	-.2340	-.0960	-.0710	-.0780	-.0660	-.0350
135.000	1.0480							-.0510		-.0550		-.0670		-.0610	
150.000	1.0480		.1250	-.2560	-.3290	-.2650	-.1600	-.0510	.0590	.0360	-.0930	-.0680	-.0840	-.0700	-.0070
165.000	1.0480			-.2740	-.3330	-.2910	-.1530	-.0440	.1100	.1330	-.0900		-.0940		-.0080
180.000	1.0480	.7960	.1110	-.2790	-.3330	-.2870	-.1560	-.0360	.1270	.2350	-.0960	-.0840	-.0910	-.0680	-.0080
270.000	1.0480	.[illegible]290													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0340	-.0460	-.3120
30.000	-.0380	-.0440	-.2920
60.000	.0100	-.0800	-.3220
90.000			-.3700
120.000	.0090	-.0530	-.3430
135.000	.0100	-.0580	-.3530
150.000	.0930	-.0890	-.3380
165.000		-.1500	-.2270
180.000	.0630		

MACH (1) = .599 ALPHAT(9) = 8.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.0140	1.0810	.5030	.0590	-.1850	-.1970	-.1220	-.0300	.0140	.0030	-.0020	-.0060	.0050	.0100	.0340
30.000	1.0140		.4580	-.0040	-.2110	-.2110	-.1220	-.0190	.0280	-.0090	-.0030	-.0160	.0040	-.0010	-.0450
60.000	1.0140		.3450	-.0890	-.2350	-.2120	-.0920	.0360	.1280	-.0980	-.0620	-.0290	-.0110	-.0040	.0030
90.000	1.0140	.8910	.2280	-.1870	-.2740	-.2210	-.0850	.0520	.1230	-1.2770	-.4550	-.3290	-.2530	-.2130	-.1290
120.000	1.0140		.1200	-.2600	-.3300	-.2860	-.1670	-.0740	-.0950	-.2640	-.0980	-.0810	-.0980	-.0670	-.0140
135.000	1.0140							-.0770		-.0720		-.0730		-.0670	
150.000	1.0140		.0710	-.2940	-.3460	-.2970	-.1710	-.0670	.0420	.0230	-.0650	-.0620	-.0810	-.0660	-.0050
165.000	1.0140			-.3130	-.3450	-.2980	-.1650	-.0470	.0960	.1370	-.0850		-.0880		.0020
180.000	1.0140	.7230	.0550	-.3150	-.3430	-.2950	-.1600	-.0470	.1220	.2360	-.0820	-.0680	-.0880	-.0660	.0030
270.000	1.0140	.8990													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A (RBNT44)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (1) = .399 ALPHAT(9) = 8.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0270	-.0310	-.2940
30.000	-.0250	-.0290	-.2750
60.000	.0230	-.0330	-.2330
90.000			-.4150
120.000	.0230	-.0270	-.3370
135.000	.0230	-.0290	-.3300
150.000	.0670	-.0700	-.3310
165.000		-.1350	-.2160
180.000	.0770		

MACH (2) = .901 ALPHAT(1) = -8.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1560	.8740	.1710	-.3120	-.6240	-.6380	-.1190	-.0190	-.0190	-.1780	-.4500	-.0530	-.0310	-.0180	.0000
30.000	1.1560		.1830	-.3080	-.6150	-.6500	-.1140	-.0180	-.0420	-.2640	-.5200	-.0660	-.0330	-.0370	-.0520
60.000	1.1560		.2440	-.2450	-.5720	-.4540	-.0910	.0130	-.0790	-.5820	-.6360	-.2170	-.1950	-.0850	-.0040
90.000	1.1560	1.0350	.3430	-.1530	-.4860	-.2910	.0040	.1810	.2840	-.9920	-.7290	-.4210	-.1250	-.0180	.0000
120.000	1.1560		.4560	-.0350	-.3690	-.3370	-.0130	.1590	.3330	-.0170	-.1000	-.1330	-.2300	-.0580	.0000
135.000	1.1560							.1270		.0970		-.1340		-.0700	
150.000	1.1560		.5650	.0170	-.2890	-.2640	-.0390	.1170	.2820	.1720	-.1030	-.1310	-.3340	-.0980	.0000
165.000	1.1560			.0970	-.2670	-.2480	-.0380	.1180	.3110	.3240	-.0820		-.3480		.0000
180.000	1.1560	1.2050	.6100	.1020	-.2550	-.2370	-.0380	.1200	.3300	.4660	-.1870	-.1330	-.3320	-.1190	.0000
270.000	1.1560	1.0310													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0640	-.1100	-.3480
30.000	-.0640	-.1200	-.3060
60.000	-.0330	-.1260	-.2900
90.000			-.4440
120.000	.0650	-.2110	-.4410
135.000	.0620	-.2300	-.4070
150.000	.0580	-.2660	-.3680
165.000		-.4620	-.2850
180.000	.0600		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBNT44)

MACH (2) = .901 ALPHAT(2) = -6.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1840	.9400	.2250	-.2630	-.5990	-.6440	-.1060	-.0080	-.0070	-.1590	-.4090	-.0690	-.0330	-.0190	.0010
30.000	1.1840		.2370	-.2730	-.5940	-.6120	-.0990	-.0020	-.0130	-.2330	-.4160	-.0860	-.0380	-.0290	-.0580
60.000	1.1840		.2690	-.2180	-.5540	-.3700	-.0650	.0490	-.0050	-.5220	-.5610	-.2000	-.0780	-.0600	-.0300
90.000	1.1840	1.0570	.3630	-.1440	-.4860	-.2430	.0260	.2030	.3360	-.9810	-.6360	-.4080	-.1350	-.0340	.0020
120.000	1.1840		.4450	-.0520	-.4010	-.2640	-.0060	.1650	.3220	-.0540	-.0950	-.1270	-.2140	-.0740	.0010
135.000	1.1840							.1270		.0800		-.1240		-.0870	
150.000	1.1840		.5250	.0210	-.3290	-.2860	-.0430	.1140	.2740	.1650	-.0900	-.1220	-.3180	-.1150	.0030
165.000	1.1840			.0360	-.3110	-.2670	-.0450	.1090	.3010	.3180	-.1800		-.3320		.0000
180.000	1.1840	1.1930	.5550	.0400	-.3030	-.2640	-.0480	.1100	.3180	.4590	-.1640	-.1210	-.3170	-.1300	-.0020
270.000	1.1840	1.0610													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0590	-.0980	-.3260
30.000	-.0590	-.1000	-.3200
60.000	-.0360	-.1040	-.2830
90.000			-.3930
120.000	.0540	-.1750	-.3920
135.000	.0550	-.1940	-.3650
150.000	.0610	-.2260	-.3360
165.000		-.3950	-.2470
180.000	.0630		

MACH (2) = .899 ALPHAT(3) = -4.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2020	1.0000	.2800	-.2210	-.5630	-.6290	-.1070	-.0040	.0020	-.1470	-.4320	-.0580	-.0360	-.0220	-.0040
30.000	1.2020		.2880	-.2270	-.5640	-.6240	-.0970	.0120	.0090	-.2060	-.4480	-.0670	-.0370	-.0250	-.0600
60.000	1.2020		.3220	-.1850	-.5330	-.4810	-.0480	.0780	.0600	-.4620	-.4650	-.1660	-.0470	-.0360	-.0330
90.000	1.2020	1.0790	.3780	-.1350	-.4810	-.2340	.0450	.2210	.3720	-.9660	-.5200	-.4140	-.1690	-.0560	-.0210
120.000	1.2020		.4310	-.0730	-.4320	-.2820	.0030	.1650	.3010	-.0920	-.1030	-.1060	-.2100	-.1010	-.0070
135.000	1.2020							.1220		.0600		-.1060		-.1110	
150.000	1.2020		.4830	-.0240	-.3920	-.3540	-.0470	.1010	.2570	.1570	-.3340	-.1040	-.2950	-.1460	-.0080
165.000	1.2020			-.0190	-.3880	-.3110	-.0560	.0960	.2830	.3120	-.6540		-.3100		-.0040
180.000	1.2020	1.1880	.5030	-.0220	-.3760	-.3700	-.0610	.0940	.2990	.4520	-.6040	-.1010	-.2990	-.1630	-.0060
270.000	1.2020	1.0820													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK (RBMT44)

MACH (2) = .899 ALPHAT(3) = -4.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0380	-.0880	-.3060
30.000	-.0380	-.0900	-.3020
60.000	-.0490	-.0990	-.2940
90.000			-.3700
120.000	.0600	-.1470	-.3700
135.000	.0600	-.1620	-.3250
150.000	.0660	-.1900	-.3100
165.000		-.3460	-.2350
180.000	.0690		

MACH (2) = .900 ALPHAT(4) = -1.890

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2120	1.0540	.3380	-.1710	-.5210	-.5920	-.1020	.0030	.0160	-.1270	-.3970	-.0460	-.0340	-.0240	-.0040
30.000	1.2120		.3390	-.1820	-.5270	-.5900	-.0890	.0250	.0330	-.1750	-.5040	-.0500	-.0320	-.0250	-.0530
60.000	1.2120		.3600	-.1560	-.5030	-.4670	-.0290	.1020	.1140	-.3950	-.3870	-.1000	-.0470	-.0340	-.0180
90.000	1.2120	1.0870	.3890	-.1320	-.4870	-.2620	.0520	.2330	.3990	-.9510	-.4500	-.2170	-.1320	-.0620	-.0180
120.000	1.2120		.4060	-.0960	-.4460	-.2520	.0090	.1610	.2750	-.1340	-.1080	-.0730	-.1820	-.1190	-.0070
135.000	1.2120							.1210		.0410		-.0740		-.1400	
150.000	1.2120		.4340	-.0700	-.4290	-.4280	-.0410	.0980	.2450	.1510	-.6520	-.0740	-.2540	-.1740	-.0070
165.000	1.2120			-.0710	-.4330	-.4410	-.0530	.0870	.2710	.3060	-.7120		-.2770		.0010
180.000	1.2120	1.1330	.4470	-.0770	-.4240	-.4560	-.0600	.0860	.2850	.4440	-.7130	-.0750	-.2630	-.1820	-.0030
270.000	1.2120	1.0910													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0530	-.0700	-.2750
30.000	-.0530	-.0680	-.2680
60.000	-.0350	-.0860	-.2880
90.000			-.3500
120.000	.0590	-.1090	-.3500
135.000	.0690	-.1200	-.3130
150.000	.0730	-.1490	-.3110
165.000		-.2780	-.2420
180.000	.0800		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT44)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (2) = .902 ALPHAT(5) = .010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.2170	1.0990	.3890	-.1250	-.4900	-.5670	-.0990	.0090	.0270	-.1050	-.3660	-.0360	-.0290	-.0210	-.0020
30.000	1.2170		.3860	-.1340	-.4990	-.5600	-.0810	.0330	.0540	-.1460	-.4650	-.0320	-.0280	-.0250	-.0500
60.000	1.2170		.3860	-.1280	-.4800	-.4870	-.0190	.1190	.1570	-.3380	-.3000	-.0340	-.0350	-.0410	-.0230
90.000	1.2170	1.0920	.3950	-.1230	-.4830	-.2340	.0550	.2320	.4110	-.9470	-.3910	-.0900	-.0750	-.0620	-.0060
120.000	1.2170		.3840	-.1190	-.4780	-.2910	.0080	.1500	.2450	-.1800	-.1260	-.0490	-.1540	-.1350	-.0070
135.000	1.2170							.1120		.0220		-.0520		-.1660	
150.000	1.2170		.3900	-.1160	-.4650	-.4620	-.0380	.0910	.2300	.1430	-.6670	-.0540	-.2200	-.2060	.0030
165.000	1.2170			-.1230	-.4630	-.5170	-.0490	.0810	.2590	.2980	-.7050		-.2360		.0020
180.000	1.2170	1.0980	.3940	-.1300	-.4710	-.4980	-.0550	.0810	.2750	.4370	-.7080	-.0550	-.2250	-.1910	.0020
270.000	1.2170	1.0990													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0440	-.0570	-.2490
30.000	-.0440	-.0520	-.2570
60.000	-.0200	-.0690	-.2740
90.000			-.3340
120.000	.0550	-.0710	-.2980
135.000	.0550	-.0790	-.2990
150.000	.0810	-.1120	-.3020
165.000		-.2270	-.2340
180.000	.0870		

MACH (2) = .902 ALPHAT(6) = 1.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5585	.6372
PHI															
.000	1.2100	1.1370	.4460	-.0740	-.4520	-.5270	-.0960	.0130	.0400	-.0840	-.3180	-.0280	-.0230	-.0260	.0070
30.000	1.2100		.4340	-.0900	-.4710	-.5350	-.0810	.0410	.0720	-.1160	-.4170	-.0230	-.0210	-.0230	-.0510
60.000	1.2100		.4130	-.1060	-.4690	-.4950	-.0150	.1300	.1930	-.2840	-.2180	-.0080	-.0320	-.0360	-.0130
90.000	1.2100	1.0900	.3870	-.1340	-.4890	-.2390	.0540	.2310	.4070	-.9540	-.3330	-.0280	-.0570	-.0710	-.0120
120.000	1.2100		.3540	-.1450	-.5070	-.2850	.0030	.1370	.2080	-.2270	-.1350	-.0330	-.1220	-.1210	-.0200
135.000	1.2100							.1000		-.0040		-.0370		-.1500	
150.000	1.2100		.3430	-.1610	-.5130	-.4690	-.0400	.0860	.2130	.1330	-.6170	-.0390	-.1830	-.1830	.0040
165.000	1.2100			-.1710	-.5100	-.4860	-.0430	.0770	.2430	.2870	-.6790		-.2060		.0030
180.000	1.2100	1.0530	.3370	-.1800	-.5180	-.4940	-.0510	.0780	.2600	.4220	-.6930	-.0460	-.2000	-.1790	-.0020
270.000	1.2100	1.0910													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBMT44)

MACH (2) = .902 ALPHAT(6) = 1.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0380	-.0340	-.2190
30.000	-.0380	-.0290	-.2270
60.000	.0040	-.0380	-.2440
90.000			-.3300
120.000	.0480	-.0360	-.3310
135.000	.0620	-.0380	-.2860
150.000	.0800	-.0800	-.2900
165.000		-.1870	-.2190
180.000	.0900		

MACH (2) = .901 ALPHAT(7) = 4.010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2000	1.1670	.5030	-.0200	-.4010	-.4900	-.1050	.0150	.0490	-.0640	-.2710	-.0260	-.0190	-.0150	.0180
30.000	1.2000		.4820	-.0460	-.4290	-.5040	-.0870	.0440	.0870	-.0890	-.3400	-.0240	-.0200	-.0150	-.0510
60.000	1.2000		.4340	-.0830	-.4430	-.5070	-.0200	.1360	.2270	-.2350	-.1350	-.0230	-.0230	-.0210	-.0090
90.000	1.2000	1.0780	.3810	-.1350	-.4900	-.2840	.0430	.2190	.3910	-.9900	-.3220	-.0680	-.0690	-.1040	-.0460
120.000	1.2000		.3220	-.1780	-.5310	-.2480	-.0120	.1120	.1620	-.2880	-.1620	-.0580	-.1060	-.1240	-.0140
135.000	1.2000							.0830		-.0310		-.0500		-.1380	
150.000	1.2000		.2920	-.2040	-.5510	-.3530	-.0440	.0740	.1940	.1160	-.2620	-.0490	-.1640	-.1690	.0140
165.000	1.2000			-.2170	-.5530	-.4480	-.0460	.0710	.2310	.2710	-.5740		-.1870		.0100
180.000	1.2000	.9990	.2840	-.2300	-.5600	-.4710	-.0510	.0700	.2480	.4050	-.4530	-.0520	-.1790	-.1580	.0060
270.000	1.2000	1.0820													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0320	-.0190	-.1900
30.000	-.0320	-.0110	-.1950
60.000	.0190	-.0210	-.2370
90.000			-.3320
120.000	.0650	-.0210	-.3310
135.000	.0650	-.0200	-.2790
150.000	.0930	-.0470	-.2790
165.000		-.1480	-.2180
180.000	.1050		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + 33° + T9 EXTERNAL TANK (RBNT44)

MACH (2) = .904 ALPHAT(8) = 6.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1790	1.1890	.5540	.0330	-.3630	-.4360	-.1110	.0190	.0790	-.0390	-.1180	-.0180	-.0110	-.0070	.0200
30.000	1.1790		.5210	-.0010	-.3990	-.4510	-.0930	.0480	.1010	-.0580	-.1110	-.0210	-.0110	-.0070	-.0460
60.000	1.1790		.4450	-.0720	-.4410	-.5000	-.0290	.1360	.2560	-.1870	-.0560	-.0210	-.0160	-.0130	.0000
90.000	1.1790	1.0530	.3690	-.1500	-.4990	-.4000	.0310	.2030	.3590	-1.0370	-.3530	-.1400	-.1080	-.1390	-.0780
120.000	1.1790		.2820	-.2130	-.5680	-.3490	-.0320	.0890	.1090	-.3530	-.2060	-.0930	-.0970	-.1190	-.0120
135.000	1.1790							.0780		-.0620		-.0720		-.1310	
150.000	1.1790		.2380	-.2520	-.5980	-.3970	-.0530	.0730	.1740	.0970	-.1640	-.0650	-.1430	-.1660	.0220
165.000	1.1790			-.2700	-.6040	-.4340	-.0510	.0740	.2190	.2530	-.1770		-.1630		.0190
180.000	1.1790	.9400	.2220	-.2780	-.6160	-.3870	-.0510	.0750	.2360	.3900	-.2270	-.0630	-.1560	-.1620	.0180
270.000	1.1790	1.0640													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0220	-.0100	-.1700
30.000	-.0220	-.0080	-.1660
60.000	.0360	-.0100	-.2320
90.000			-.3120
120.000	.0740	.0200	-.2670
135.000	.0740	.0200	-.2660
150.000	.1070	-.0120	-.2600
165.000		-.1130	-.1940
180.000	.1190		

MACH (2) = .898 ALPHAT(9) = 7.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.1520	1.2040	.6070	.0900	-.2930	-.3900	-.1130	.0260	.0810	-.0100	-.0710	-.0150	.0090	.0050	.0400
30.000	1.1520		.5630	.0500	-.3320	-.4200	-.1010	.0490	.1210	-.0250	-.0700	-.0210	.0030	-.0020	-.0380
60.000	1.1520		.4590	-.0430	-.4270	-.4910	-.0410	.1320	.2760	-.1400	-.0390	-.0250	-.0050	-.0030	.0090
90.000	1.1520	1.0310	.3450	-.1590	-.5120	-.4160	.0090	.1810	.3070	-1.0890	-.3620	-.2220	-.1240	-.1490	-.0830
120.000	1.1520		.2400	-.2450	-.5930	-.3320	-.0560	.0460	.0450	-.4120	-.3290	-.1050	-.0730	-.1010	-.0090
135.000	1.1520							.0450		-.0820		-.0920		-.1100	
150.000	1.1520		.1860	-.2900	-.6320	-.3300	-.0600	.0460	.1540	.0830	-.1600	-.0760	-.1170	-.1450	.0290
165.000	1.1520			-.3060	-.6360	-.3060	-.0590	.0480	.2030	.2420	-.1100		-.1320		.0280
180.000	1.1520	.8710	.1720	-.3200	-.6470	-.2830	-.0580	.0520	.2220	.3800	-.1090	-.0660	-.1280	-.1270	.0280
270.000	1.1520	1.0390													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 EXTERNAL TANK (RBMT44)

MACH (2) = .898 ALPHAT(9) = 7.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0070	.0070	-.1520
30.000	-.0080	.0110	-.1660
60.000	.0520	.0080	-.2250
90.000			-.3070
120.000	.0780	.0420	-.2830
135.000	.0990	.0390	-.2420
150.000	.1200	.0010	-.2430
165.000		-.1000	-.1860
180.000	.1350		

MACH (3) = 1.103 ALPHAT(1) = -8.010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2940	1.0390	.3680	-.0800	-.3780	-.4410	-.5160	-.1100	.0420	.1040	-.1030	-.3270	-.0360	.0200	-.0060
30.000	1.2940		.3820	-.0660	-.3740	-.4340	-.5160	-.1170	.0040	.0260	-.2540	-.1860	-.0560	-.0070	-.0870
60.000	1.2940		.4360	-.0200	-.3400	-.4110	-.4970	-.0900	.1040	-.3000	-.4180	-.2460	-.1150	-.1740	-.0730
90.000	1.2940	1.1770	.5260	.0620	-.2790	-.3630	-.4510	.0140	.4560	-.5330	-.4830	-.4260	-.0570	-.1190	-.1310
120.000	1.2940		.6270	.1590	-.2020	-.2870	-.3750	.1210	.5220	.2590	.0080	.1150	-.0070	-.1520	-.3260
135.000	1.2940							.0620		.3440		.1220		-.1730	
150.000	1.2940		.7240	.2510	-.1280	-.2180	-.3170	-.1980	.4810	.4090	-.2070	.1420	-.0420	-.2210	-.3400
165.000	1.2940			.2670	-.1110	-.1990	-.2960	-.2280	.5110	.5420	-.3490		-.0410		-.3260
180.000	1.2940	1.3300	.7610	.2710	-.1090	-.1880	-.2960	-.2290	.5260	.6660	-.3510	.1620	-.0300	-.2540	-.3630
270.000	1.2940	1.1760													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0880	.0000	-.0790
30.000	-.0870	-.0120	-.0840
60.000	-.0160	-.0030	-.0650
90.000			-.1950
120.000	.0690	-.0140	-.2820
135.000	.0790	-.0130	-.3310
150.000	.0910	-.0370	-.2950
165.000		-.1720	-.3000
180.000	.1070		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

ANES 11-737 IA9 O2A + S3 + T9 EXTERNAL TANK (RBHT44)

MACH (3) = 1.097 ALPHAT(2) = -5.950

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3150	1.0980	.4180	-.0370	-.3520	-.4180	-.4930	-.1200	.0700	.1140	-.0960	-.3520	-.0250	.0330	-.0030
30.000	1.3150		.4300	-.0280	-.3500	-.4130	-.4940	-.1920	.0630	.0560	-.2180	-.1730	-.0490	.0110	-.0910
60.000	1.3150		.4760	.0080	-.3190	-.3680	-.4730	-.0960	.1430	-.2070	-.4660	-.1180	-.0280	-.0450	-.0980
90.000	1.3150	1.2000	.5450	.0730	-.2710	-.3510	-.3760	.0240	.5300	-.5260	-.4750	-.4240	-.2010	-.1580	-.1290
120.000	1.3150		.6170	.1480	-.2100	-.2950	-.3860	.0970	.4700	.2340	-.0690	.1170	-.0060	-.1600	-.3200
135.000	1.3150							.0780		.3310		.1270		-.1780	
150.000	1.3150		.6850	.2120	-.1670	-.2500	-.3460	-.0650	.4200	.4010	-.2790	.1510	-.0320	-.2220	-.3490
165.000	1.3150			.2220	-.1510	-.2400	-.3320	-.2560	.4570	.5340	-.3580		-.0330		-.3340
180.000	1.3150	1.3170	.7140	.2220	-.1520	-.2310	-.3340	-.2520	.4650	.6570	-.3590	.1720	-.0230	-.2470	-.3670
270.000	1.3150	1.2020													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0970	.0040	-.0620
30.000	-.0970	-.0040	-.0780
60.000	-.0770	-.0090	-.0800
90.000			-.1910
120.000	.0750	-.0040	-.2300
135.000	.0750	-.0070	-.2650
150.000	.0950	-.0330	-.2650
165.000		-.1720	-.2670
180.000	.1070		

MACH (3) = 1.100 ALPHAT(3) = -3.970

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3300	1.1440	.4670	.0080	-.3190	-.3910	-.4760	-.4060	.0850	.1260	-.0790	-.3260	-.0280	.0470	.0180
30.000	1.3300		.4770	.0080	-.3190	-.3680	-.4750	-.3830	.0680	.0950	-.2030	-.1960	-.0400	.0260	-.0870
60.000	1.3300		.5070	.0390	-.2920	-.3690	-.4560	-.1220	.2360	-.1460	-.4810	-.0370	-.0410	-.0310	-.0830
90.000	1.3300	1.2140	.5560	.0850	-.2630	-.3460	-.4360	.0500	.5460	-.5060	-.4710	-.4290	-.2450	-.2060	-.1250
120.000	1.3300		.6010	.1350	-.2220	-.3050	-.3960	.0850	.3500	.2070	-.1600	.1220	.0050	-.1480	-.2980
135.000	1.3300							.0930		.3200		.1280		-.1570	
150.000	1.3300		.6480	.1770	-.1970	-.2790	-.3700	.0590	.3070	.3800	-.2740	.1680	-.0170	-.2070	-.3340
165.000	1.3300			.1820	-.1880	-.2720	-.3630	-.0980	.3360	.5330	-.3470		-.0180		-.3200
180.000	1.3300	1.2930	.6660	.1800	-.1880	-.2670	-.3650	-.1920	.3560	.6670	-.3490	.1820	-.0070	-.2270	-.3340
270.000	1.3300	1.2180													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT44)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (3) = 1.100 ALPHAT(3) = -3.970

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0950	-.0230	-.0350
30.000	-.0950	-.0220	-.0350
60.000	-.0990	-.0330	-.1190
90.000			-.1800
120.000	.0870	.0140	-.1800
135.000	.0880	.0120	-.2440
150.000	.1150	-.0130	-.2350
165.000		-.1350	-.2470
180.000	.1250		

MACH (3) = 1.102 ALPHAT(4) = -1.990

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3360	1.1900	.5160	.0490	-.2880	-.3640	-.4510	-.3900	.1160	.1310	-.0740	-.3080	-.0410	.0450	.0280
30.000	1.3360		.5200	.0450	-.2950	-.3620	-.4540	-.3860	.0900	.1070	-.1720	-.2200	-.0390	.0360	-.0540
60.000	1.3360		.5350	.0640	-.2780	-.3510	-.4400	-.1180	.2870	-.0900	-.4610	-.0280	-.0110	-.0060	-.0330
90.000	1.3360	1.2210	.5640	.0900	-.2570	-.3430	-.4300	.0300	.5350	-.4920	-.3800	-.2540	-.3040	-.2260	-.1130
120.000	1.3360		.5830	.1130	-.2400	-.3210	-.4070	.0560	.3420	.1310	-.2800	.1270	.0170	-.1320	-.2830
135.000	1.3360							.0570		.2680		.0980		-.1490	
150.000	1.3360		.6070	.1340	-.2330	-.3090	-.3960	.0680	.2140	.3260	-.1950	.0770	-.0060	-.1820	-.3050
165.000	1.3360			.1330	-.2230	-.3060	-.3900	.0830	.2150	.3940	-.1920		-.0100		-.2930
180.000	1.3360	1.2630	.6180	.1310	-.2270	-.3010	-.3920	.0840	.2150	.5640	-.2030	.1130	.0010	-.1950	-.3000
270.000	1.3360	1.2240													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0820	-.0470	-.0820
30.000	-.0800	-.0360	-.0470
60.000	-.0560	-.0450	-.1110
90.000			-.1700
120.000	.1060	.0180	-.1710
135.000	.1060	.0190	-.1840
150.000	.1180	-.0100	-.2030
165.000		-.1580	-.2250
180.000	.1270		

DATE 24 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBHT44)

MACH (3) = 1.100 ALPHAT(5) = .030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3410	1.2330	.5670	.0990	-.2530	-.3920	-.4290	-.3630	.1470	.1520	-.0570	-.2780	-.0430	.0430	.0330
30.000	1.3410		.5640	.0900	-.2600	-.3360	-.4330	-.3630	.1280	.1260	-.1260	-.1860	-.0450	.0420	-.0370
60.000	1.3410		.5640	.0920	-.2580	-.3370	-.4270	-.0880	.2780	-.0270	-.4990	-.0030	-.0080	.0090	-.0220
90.000	1.3410	1.2260	.5690	.0920	-.2550	-.3380	-.4290	.0320	.5600	-.4780	-.4200	.0060	-.0630	-.1380	-.1070
120.000	1.3410		.5590	.0960	-.2570	-.3360	-.4220	.0320	.3470	.0670	-.3470	.1460	.0390	-.1070	-.2650
135.000	1.3410							.0300		.2260		.1180		-.1290	
150.000	1.3410		.5640	.1010	-.2610	-.3360	-.3610	.0420	.1590	.2930	-.1190	.0800	.0160	-.1590	-.2850
165.000	1.3410			.0930	-.2580	-.3380	-.2600	.0570	.1630	.2990	.0060		.0120		-.2780
180.000	1.3410	1.2300	.5670	.0870	-.2610	-.3380	-.2740	.0550	.1530	.4630	.0180	.0710	.0230	-.1340	-.2550
270.000	1.3410	1.2290													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0660	-.0590	-.0880
30.000	-.0660	-.0410	-.0990
60.000	-.0430	-.0390	-.0940
90.000			-.1610
120.000	.0890	.0300	-.1600
135.000	.0890	.0250	-.1600
150.000	.1100	-.0120	-.1770
165.000		-.1690	-.1970
180.000	.1200		

MACH (3) = 1.101 ALPHAT(6) = 2.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3370	1.2670	.6200	.1390	-.2200	-.3020	-.3960	-.3340	.1630	.1740	-.0350	-.2480	-.0490	.0420	.0390
30.000	1.3370		.6050	.1240	-.2320	-.3120	-.4060	-.3350	.1730	.1480	-.1110	-.1760	-.0490	.0390	-.0330
60.000	1.3370		.5880	.1050	-.2430	-.3190	-.4120	-.1300	.3180	.0300	-.4300	.0030	-.0100	.0200	-.0180
90.000	1.3370	1.2220	.5640	.0850	-.2580	-.3410	-.4290	.0340	.5570	-.4900	-.4050	.0820	.0190	-.0350	-.0830
120.000	1.3370		.5320	.0630	-.2760	-.3520	-.4360	.0310	.3000	.0010	-.4000	.1460	.0500	-.0830	-.2360
135.000	1.3370							.0070		.1800		.1360		-.1080	
150.000	1.3370		.5190	.0540	-.2920	-.3620	-.1320	.0040	.1220	.2530	-.1100	.0880	.0190	-.1360	-.2350
165.000	1.3370			.0470	-.2970	-.3680	-.0590	.0290	.1290	.2500	-.0410		.0190		-.2380
180.000	1.3370	1.1880	.5140	.0400	-.2970	-.3660	-.0600	.0250	.1180	.3840	-.0400	.1060	.0300	-.1120	-.2230
270.000	1.3370	1.2270													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT44)

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK

MACH (3) = 1.101 ALPHAT(6) = 2.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0610	-.0630	-.0600
30.000	-.0610	-.0430	-.0490
60.000	-.0090	-.0240	-.0770
90.000			-.1790
120.000	.0520	.0440	-.1410
135.000	.0700	.0340	-.1130
150.000	.0830	.0010	-.1340
165.000		-.1680	-.1730
180.000	.1010		

MACH (3) = 1.102 ALPHAT(7) = 3.980

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3280	1.2960	.6680	.1840	-.1840	-.2700	-.3650	-.3020	.2070	.1900	-.0100	-.2130	-.0490	.0320	.0630
30.000	1.3280		.6460	.1620	-.2060	-.2840	-.3800	-.3140	.1980	.1680	-.0630	-.1720	-.0490	.0310	-.0050
60.000	1.3280		.6070	.1230	-.2310	-.3050	-.4010	-.2390	.3210	.0750	-.3730	-.0160	-.0250	.0300	.0110
90.000	1.3280	1.2120	.5570	.0770	-.2660	-.3420	-.4330	.0220	.5300	-.5160	-.3940	.0340	.0470	-.0030	-.1080
120.000	1.3280		.5020	.0360	-.3010	-.3680	-.4500	.0050	.2600	-.0620	-.1970	.1100	.0570	-.0520	-.1980
135.000	1.3280							-.0160		.1380		.1200		-.0860	
150.000	1.3280		.4760	.0130	-.3240	-.3890	-.1040	-.0310	.0870	.2340	-.1210	.0800	.0210	-.1170	-.2000
165.000	1.3280			.0010	-.3290	-.3930	-.0330	-.0010	.0890	.2260	-.0560		.0210		-.2090
180.000	1.3280	1.1430	.4660	-.0080	-.3310	-.3930	-.0280	.0020	.0880	.3300	-.0470	.0890	.0240	-.1030	-.2080
270.000	1.3280	1.2180													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0430	-.0570	-.0510
30.000	-.0390	-.0410	-.0540
60.000	.0090	-.0160	-.0560
90.000			-.1620
120.000	.0480	.0640	-.0700
135.000	.0740	.0630	-.0900
150.000	.0860	.0270	-.1180
165.000		-.1180	-.1450
180.000	.0980		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 EXTERNAL TANK (RBMT44)

MACH (3) = 1.105 ALPHAT(8) = 6.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3120	1.3180	.7180	.2340	-.1370	-.2260	-.3330	-.2690	.2300	.2150	.0170	-.1650	-.0300	.0000	.0730
30.000	1.3120		.6890	.2100	-.1700	-.2490	-.3550	-.2870	.2260	.1960	-.0360	-.0990	-.0460	.0170	.0000
60.000	1.3120		.6210	.1430	-.2090	-.2930	-.3920	-.2750	.3460	.1190	-.3000	-.0300	-.0380	.0360	.0240
90.000	1.3120	1.1970	.5450	.0730	-.2690	-.3520	-.4410	.0130	.5020	-.5600	-.3680	-.1050	.0260	.0090	-.0970
120.000	1.3120		.4690	.0140	-.3160	-.3900	-.4680	-.0240	.2120	-.1330	-.2240	-.0110	.0580	-.0290	-.1590
135.000	1.3120							-.0440		.0820		.0810		-.0570	
150.000	1.3120		.4310	-.0190	-.3430	-.4140	-.0990	-.0560	.0540	.2090	-.0980	.0600	.0110	-.0940	-.1590
165.000	1.3120			-.0360	-.3510	-.4200	-.0490	-.0370	.0610	.2260	-.0480		.0140		-.1610
180.000	1.3120	1.0900	.4180	-.0490	-.3540	-.4120	-.0260	-.0230	.0680	.2960	-.0490	.0580	.0200	-.0800	-.1680
270.000	1.3120	1.2040													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0230	-.0380	-.0250
30.000	-.0250	-.0310	-.0380
60.000	.0760	-.0040	-.0660
90.000			-.1650
120.000	.0530	.0970	-.1100
135.000	.0680	.0840	-.0870
150.000	.0880	.0550	-.1120
165.000		-.0450	-.1290
180.000	.0980		

MACH (3) = 1.102 ALPHAT(9) = 8.010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.2860	1.3290	.7660	.2800	-.0380	-.1900	-.2970	-.2310	.2380	.2310	.0380	-.1090	-.0030	-.0020	.0850
30.000	1.2860		.7250	.2440	-.1400	-.2210	-.3250	-.2570	.2620	.2210	-.0350	-.0490	-.0200	.0030	.0030
60.000	1.2860		.6310	.1550	-.2030	-.2810	-.3810	-.2950	.3780	.1570	-.2170	-.0310	-.0200	.0030	.0400
90.000	1.2860	1.1680	.5250	.0610	-.2820	-.3600	-.4490	.0020	.4630	-.5990	-.3440	-.2420	.0030	.0100	-.0830
120.000	1.2860		.4320	-.0200	-.3420	-.4090	-.4850	-.0490	.1590	-.2000	-.2980	-.0660	.0620	-.0170	-.1290
135.000	1.2860							-.0600		.0250		.0590		-.0380	
150.000	1.2860		.3830	-.0610	-.3740	-.4370	-.0940	-.0770	.0280	.1640	-.0400	.0440	.0230	-.0890	-.0990
165.000	1.2860			-.0800	-.3810	-.4200	-.0590	-.0650	.0280	.2170	-.0260		.0220		-.0950
180.000	1.2860	1.0260	.3680	-.0900	-.3840	-.3480	-.0330	-.0430	.0420	.2700	-.0190	.0410	.0270	-.0550	-.0980
270.000	1.2860	1.1810													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNT44)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (3) = 1.102 ALPHAT(9) = 8.010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	.0030	-.0130	.0090
30.000	.0000	-.0110	-.0080
60.000	.0890	.0140	-.0390
90.000			-.1510
120.000	.0540	.1310	-.0330
135.000	.0740	.1130	-.0810
150.000	.0940	.0870	-.1090
165.000		.0150	-.1180
180.000	.1040		

MACH (4) = 1.247 ALPHAT(1) = -8.060

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3690	1.1050	.4260	-.0020	-.2720	-.3260	-.3980	-.3490	.0290	.0910	-.0120	-.2400	-.2100	-.0610	.0390
30.000	1.3690		.4390	.0050	-.2690	-.3250	-.4050	-.3520	-.0190	.0230	-.1020	-.2080	-.1620	-.0800	-.0390
60.000	1.3690		.4340	.0540	-.2390	-.3090	-.3860	-.3360	.0000	-.2670	-.5040	-.3360	-.0340	-.1170	-.0980
90.000	1.3690	1.2520	.5870	.1320	-.1800	-.2610	-.3430	-.2820	.5330	-.3490	-.3100	-.3460	-.3230	-.1250	-.0940
120.000	1.3690		.6860	.2330	-.1040	-.1890	-.2740	-.2190	.4550	.3560	.0140	.0690	.1290	-.0550	-.2290
135.000	1.3690							-.2110		.4410		.1150		-.0790	
150.000	1.3690		.7810	.3170	-.0420	-.1270	-.2180	-.1800	.3310	.4790	-.1040	.1930	.1130	-.0980	-.2530
165.000	1.3690			.3360	-.0210	-.1110	-.2020	-.1650	.3510	.6810	-.2000		.1110		-.2680
180.000	1.3690	1.4070	.8180	.3390	-.0190	-.1070	-.2000	-.1640	.3620	.8340	-.2090	.2470	.1130	-.1050	-.2560
270.000	1.3690	1.2470													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0480	-.0390	-.0410
30.000	-.0480	-.0350	-.0540
60.000	-.0200	-.0170	-.0310
90.000			-.1090
120.000	-.0620	.0500	-.1090
135.000	-.1440	.0510	-.2590
150.000	-.1640	.0570	-.3000
165.000		-.0360	-.2530
180.000	-.1380		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OBA + S3 + T9 EXTERNAL TANK (RBNT44)

MACH (4) = 1.250 ALPHAT(2) = -5.960

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3950	1.1670	.4790	.0450	-.2420	-.3040	-.3830	-.3380	.0140	.1170	.0130	-.2110	-.2330	-.0660	.0250
30.000	1.3950		.4920	.0510	-.2390	-.2990	-.3820	-.3360	-.0020	.0640	-.1090	-.2850	-.1290	-.0820	-.0370
60.000	1.3950		.5350	.0880	-.2140	-.2790	-.3610	-.3200	.1180	-.1480	-.5500	-.1740	-.0200	-.0570	-.0680
90.000	1.3950	1.2780	.6050	.1500	-.1680	-.2500	-.3310	-.2410	.5550	-.3320	-.3900	-.4000	-.2470	-.1820	-.1300
120.000	1.3950		.6740	.2200	-.1120	-.1960	-.2790	-.2380	.3800	.3210	-.0590	.0020	.1400	-.0410	-.2230
135.000	1.3950							-.2290		.4150		.0190		-.0570	
150.000	1.3950		.7460	.2840	-.0700	-.1530	-.2410	-.2020	.2890	.4170	-.08 0	.0040	.1170	-.0870	-.2440
165.000	1.3950			.2950	-.0560	-.1410	-.2290	-.1910	.2990	.6300	-.1750		.1220		-.2550
180.000	1.3950	1.3940	.7700	.2950	-.0540	-.1370	-.2290	-.1870	.3130	.8470	-.1860	.0590	.1380	-.0990	-.2430
270.000	1.3950	1.2770													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0360	-.0450	-.0390
30.000	-.0350	-.0340	-.0390
60.000	-.0640	-.0230	-.0390
90.000			-.0980
120.000	-.0680	.0570	-.0980
135.000	-.1620	.0680	-.2250
150.000	-.2020	.0670	-.2670
165.000		-.0200	-.2250
180.000	-.1740		

MACH (4) = 1.247 ALPHAT(3) = -5.960

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4100	1.2190	.5250	.0800	-.2140	-.2780	-.3670	-.3230	-.0170	.1400	.0300	-.1920	-.2520	-.0530	.0200
30.000	1.4100		.5330	.0930	-.2130	-.2730	-.3660	-.3210	.0160	.0860	-.0300	-.2630	-.0930	-.0820	-.0340
60.000	1.4100		.5670	.1150	-.1900	-.2690	-.3510	-.3060	.1500	-.0610	-.5040	-.0980	-.0250	-.0650	-.0700
90.000	1.4100	1.2930	.6100	.1570	-.1610	-.2430	-.3210	-.2640	.5560	-.3150	-.5090	-.4390	-.2310	-.3520	-.1380
120.000	1.4100		.6580	.2010	-.1250	-.2110	-.2910	-.2600	.2220	.2950	-.1170	.0120	.1320	-.0300	-.2100
135.000	1.4100							-.2510		.3130		.0260		-.0450	
150.000	1.4100		.7030	.2460	-.0980	-.1830	-.2690	-.2320	.2410	.3540	-.0710	.0000	.1060	-.0710	-.2340
165.000	1.4100			.2530	-.0920	-.1770	-.2650	-.2220	.2540	.3880	-.1500		.1*80		-.2370
180.000	1.4100	1.3710	.7190	.2*80	-.0920	-.1750	-.2630	-.2210	.2540	.5695	-.1530	.0070	.1390	-.0810	-.2320
270.000	1.4100	1.2900													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT44)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK

MACH (4) = 1.247 ALPHAT(3) = -3.960

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0300	-.0460	-.0440
30.000	-.0300	-.0350	-.0220
60.000	-.024.	-.0300	-.0480
90.000			-.0850
120.000	-.0820	.0760	-.0860
135.000	-.1340	.0780	-.2050
150.000	-.1790	.0770	-.2190
165.000		-.0300	-.2040
180.000	-.1460		

MACH (4) = 1.248 ALPHAT(4) = -2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1058	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4150	1.2600	.5700	.1170	-.1920	-.2600	-.3380	-.2990	-.0790	.1650	.0470	-.1710	-.2340	-.0320	.0120
30.000	1.4150		.5740	.1160	-.1940	-.2580	-.3400	-.2980	.0470	.0830	-.0150	-.2300	-.0850	-.0670	-.0380
60.000	1.4150		.5930	.1350	-.1770	-.2460	-.3300	-.2870	.1330	.0090	-.4520	-.0700	.0080	-.0570	-.0490
90.000	1.4150	1.2940	.6190	.1570	-.1580	-.2350	-.3140	-.2690	.5620	-.2940	-.3970	-.3690	-.1340	-.3250	-.1350
120.000	1.4150		.6400	.1820	-.1420	-.2170	-.2990	-.2600	.2420	.2330	-.1830	-.0230	.1270	-.0150	-.2160
135.000	1.4150							-.2560		.3460		-.0570		-.0260	
150.000	1.4150		.6610	.2030	-.1300	-.2060	-.2880	-.2510	.1830	.3240	-.0250	-.0990	.0450	-.0460	-.2170
165.000	1.4150			.2010	-.1280	-.2020	-.2850	-.2460	.1920	.3380	.0840		.1320		-.2040
180.000	1.4150	1.3400	.6700	.1960	-.1270	-.2020	-.2850	-.2400	.2080	.4280	.1230	-.1120	.1670	-.0450	-.2160
270.000	1.4150	1.2940													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0210	-.0330	-.0500
30.000	-.0220	-.0270	-.0240
60.000	-.0260	-.0220	-.0430
90.000			-.0860
120.000	-.0680	.1000	-.0870
135.000	-.1160	.1040	-.1720
150.000	-.1000	.0830	-.1590
165.000		-.0340	-.1590
180.000	.0260		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBMT44)

MACH (4) = 1.248 ALPHAT(5) = .020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4150	1.3000	.6160	.1620	-.1570	-.2290	-.3240	-.2820	-.1660	.1870	.0390	-.1480	-.2100	-.0580	-.0090
30.000	1.4150		.6160	.1600	-.1620	-.2330	-.3260	-.2810	.0650	.1070	-.0320	-.2010	-.0840	-.0610	-.0470
60.000	1.4150		.6170	.1560	-.1560	-.2350	-.3200	-.2810	.1400	.0700	-.3940	-.0430	.0050	-.0480	-.0340
90.000	1.4150	1.2960	.6190	.1590	-.1590	-.2400	-.3190	-.2760	.5870	-.2860	-.5810	-.0460	.0360	-.1310	-.1200
120.000	1.4150		.6150	.1570	-.1600	-.2370	-.3150	-.2740	.2730	.1570	-.2450	-.0070	.1150	.0020	-.1930
135.000	1.4150							-.2730		.2840		-.1520		-.0090	
150.000	1.4150		.6180	.1640	-.1600	-.2380	-.3140	-.2050	.1320	.2730	.0170	-.1660	.0670	-.0250	-.1990
165.000	1.4150			.1580	-.1610	-.2360	-.3160	-.1630	.1470	.2770	.1200		.1360		-.1790
180.000	1.4150	1.3000	.6220	.1520	-.1610	-.2380	-.3190	-.1430	.1560	.3820	.1110	-.1500	.1430	.0060	-.1900
270.000	1.4150	1.2980													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0080	-.0290	-.0520
30.000	-.0090	-.0170	-.0170
60.000	-.0070	-.0220	-.0360
90.000			-.1000
120.000	-.0640	.0980	-.1010
135.000	-.0800	.0990	-.1270
150.000	-.0650	.0850	-.1260
165.000		-.0340	-.1240
180.000	.0290		

MACH (4) = 1.244 ALPHAT(6) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4160	1.3420	.6730	.2130	-.1210	-.1990	-.2960	-.2520	-.1690	.2130	.0780	-.1240	-.1930	-.0590	-.0100
30.000	1.4160		.6630	.1960	-.1350	-.2070	-.3010	-.2560	.0870	.1350	.0120	-.1710	-.0780	-.0610	-.0360
60.000	1.4160		.6450	.1760	-.1430	-.2210	-.3080	-.2670	.1730	.1320	-.3390	-.0300	-.0050	-.0380	-.0310
90.000	1.4160	1.2990	.6220	.1560	-.1590	-.2410	-.3210	-.2640	.5820	-.2950	-.4330	.0510	.0500	-.0180	-.0670
120.000	1.4160		.5930	.1390	-.1790	-.2540	-.3300	-.2670	.2560	.0860	-.3050	.0080	.0950	.0020	-.1640
135.000	1.4160							-.1680		.2120		-.1160		-.0070	
150.000	1.4160		.5780	.1280	-.1900	-.2640	-.3370	.0000	.0980	.2380	.0180	-.2100	.0870	-.0190	-.1780
165.000	1.4160			.1200	-.1990	-.2660	-.3400	.0210	.1120	.2150	.1180		.1370		-.1580
180.000	1.4160	1.2630	.5740	.1120	-.1960	-.2700	-.3430	-.0050	.0950	.3460	.1160	-.1690	.1450	.0160	-.1650
270.000	1.4160	1.3040													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBNT44)

MACH (4) = 1.244 ALPHAT(6) = 2.070

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0090	-.0120	-.0550
30.000	-.0100	-.0080	-.0160
60.000	.0110	.0030	-.0400
90.000			-.1170
120.000	-.0430	.0790	-.1170
135.000	-.0170	.0890	-.0750
150.000	.0160	.0640	-.0630
165.000		-.0560	-.1090
180.000	.0330		

MACH (4) = 1.248 ALPHAT(7) = 4.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4100	1.3720	.7230	.2560	-.0890	-.1670	-.2650	-.2260	-.1520	.2410	.0980	-.0930	-.1580	-.0460	-.0130
30.000	1.4100		.7050	.2410	-.1040	-.1770	-.2760	-.2280	.0900	.1720	.0700	-.1350	-.0760	-.0560	-.0660
60.000	1.4100		.6620	.1970	-.1290	-.2070	-.2960	-.2560	.1930	.1770	-.2830	-.0480	-.0130	-.0390	-.0330
90.000	1.4100	1.2880	.6150	.1500	-.1620	-.2450	-.3250	-.2810	.5610	-.3180	-.4480	-.0290	.0240	.0110	-.0600
120.000	1.4100		.5630	.1140	-.1950	-.2720	-.3420	-.2970	.1600	.0170	-.3310	-.0310	.0900	.0240	-.1370
135.000	1.4100							-.1820		.1530		-.1250		.0030	
150.000	1.4100		.5330	.0900	-.2160	-.2890	-.3570	-.0070	.0650	.2050	.0210	-.1880	.0850	-.0120	-.1380
165.000	1.4100			.0780	-.2220	-.2920	-.3610	.0130	.0750	.1830	.0930		.1230		-.1330
180.000	1.4100	1.2140	.5240	.0730	-.2240	-.2940	-.3640	.0100	.0600	.3020	.0790	-.1720	.1520	.0220	-.1170
270.000	1.4100	1.2920													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0130	.0030	-.0250
30.000	-.0130	.0080	-.0090
60.000	.0790	.0110	-.0080
90.000			-.1070
120.000	-.0220	.0960	-.1060
135.000	.0060	.0890	-.0360
150.000	.0290	.0620	-.0630
165.000		-.0560	-.0890
180.000	.0330		

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7FT IA9 C2A + S3 + T9 EXTERNAL TANK (RBMT44)

MACH (4) = 1.246 ALPHAT(8) = 6.030

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3890	1.3890	.7670	.3020	-.0520	-.1320	-.2360	-.1950	-.1250	.2660	.1220	-.0650	-.1120	-.0330	-.0040
30.000	1.3890		.7400	.2790	-.0770	-.1530	-.2540	-.2000	.1070	.2140	.0960	-.1040	-.0620	-.0410	-.0570
60.000	1.3890		.6740	.2120	-.1180	-.1990	-.2660	-.2480	.2170	.2260	-.2240	-.0270	-.0170	-.0310	-.0280
90.000	1.3890	1.2700	.6000	.1420	-.1700	-.2510	-.3310	-.2640	.5470	-.3500	-.4440	-.1680	-.0370	.0100	-.0290
120.000	1.3890		.5270	.0840	-.2150	-.2900	-.3600	-.3070	.1310	-.0500	-.2320	-.1050	.0780	.0400	-.1070
135.000	1.3890							-.1260		.1170		-.1870		.0220	
150.000	1.3890		.4840	.0540	-.2410	-.3120	-.3620	-.0220	.0260	.1760	.0080	-.1690	.0760	.0000	-.1030
165.000	1.3890			.0410	-.2500	-.3160	-.2790	-.0080	.0410	.2000	.0680		.0990		-.1050
180.000	1.3890	1.1600	.4750	.0320	-.2520	-.3170	-.2910	-.0070	.0380	.2550	.1560	-.1640	.1290	.0240	-.0960
270.000	1.3890	1.2730													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0200	.0200	.0050
30.000	.0110	.0220	.0040
60.000	.0970	.0250	.0030
90.000			-.0740
120.000	.0010	.1150	-.0050
135.000	.0210	.1030	-.0150
150.000	.0410	.0820	-.0350
165.000		-.0290	-.0600
180.000	.0300		

MACH (4) = 1.246 ALPHAT(9) = 8.010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.3640	1.4040	.8190	.3470	-.0090	-.0960	-.2040	-.1620	-.0930	.2920	.1460	-.0340	-.0580	-.0110	.0140
30.000	1.3640		.7800	.3190	-.0440	-.1230	-.2280	-.1850	.1170	.2530	.1230	-.0640	-.0310	-.0230	-.0550
60.000	1.3640		.6890	.2300	-.1070	-.1880	-.2780	-.2420	.2460	.2700	-.1570	.0090	-.0160	-.0130	-.0300
90.000	1.3640	1.2480	.5860	.1350	-.1820	-.2600	-.3410	-.3010	.5030	-.3760	-.3960	-.3570	-.0550	.0230	-.0330
120.000	1.3640		.4910	.0600	-.2380	-.3090	-.3790	-.3320	.0950	-.1400	-.3000	-.1450	.0710	.0480	-.1030
135.000	1.3640							-.1250		.0600		-.2120		.0380	
150.000	1.3640		.4400	.0200	-.2670	-.3350	-.3480	-.0520	-.0010	.1540	-.0110	-.1620	.0770	.0090	-.0850
165.000	1.3640			.0050	-.2760	-.3390	-.1860	-.0390	.0060	.1830	.0460		.0930		-.0350
180.000	1.3640	1.1030	.4270	-.0030	-.2780	-.3390	-.1330	-.0310	.0160	.2310	.1310	-.1450	.1070	.0290	-.0850
270.000	1.3640	1.2550													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMT44)

AMES 11-7X7 IA9 O2A + S3 + T9 EXTERNAL TANK

MACH (4) = 1.246 ALPHAT(9) = 8.010

DEPENDENT VARIABLE CP

SECTION (1)EXTERNAL TANK

X/LT	.7449	.8526	.9290
PHI			
.000	-.0350	.0340	.0250
30.000	-.0360	.0350	.0190
60.000	.0950	.0360	-.0070
90.000			-.0640
120.000	.0370	.1420	-.0090
135.000	.0390	.1400	.0040
150.000	.0640	.1070	-.0150
165.000		.0340	-.0330
180.000	.0770		

DATE 26 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNYD1) (27 APR 73)

AMES 11-7D7 IA9 C2A + S3 + T9 EXTERNAL TANK BASE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = 1.500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .601 ALPHAT(1) = -8.140

	X/LT .977	1.000
PHI		
.000	-.2180	-.0420
90.000	-.2400	
180.000	-.1510	

MACH (1) = .598 ALPHAT(2) = -6.130

	X/LT .977	1.000
PHI		
.000	-.2110	-.0530
90.000	-.2100	
180.000	-.1720	

MACH (1) = .597 ALPHAT(3) = -4.100

	X/LT .977	1.000
PHI		
.000	-.1650	-.0430
90.000	-.1960	
180.000	-.1900	

MACH (1) = .599 ALPHAT(4) = -2.080

	X/LT .977	1.000
PHI		
.000	-.1450	-.0460
90.000	-.1730	
180.000	-.1860	

MACH (1) = .597 ALPHAT(5) = -.060

	X/LT .977	1.000
PHI		
.000	-.0890	-.0470
90.000	-.1270	
180.000	-.1810	

MACH (1) = .598 ALPHAT(6) = 1.980

	X/LT .977	1.000
PHI		
.000	-.0570	-.0330
90.000	-.1400	
180.000	-.1900	

MACH (1) = .597 ALPHAT(7) = 3.930

	X/LT .977	1.000
PHI		
.000	-.0570	-.0270
90.000	-.0860	
180.000	-.1920	

DATE 28 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7?7 IA9 02A + S3 + T9 EXTERNAL TANK BASE (RBNY01)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .600 ALPHAT(8) = 5.900

X/LT	.977	1.000
PHI		
.000	-.0550	.0010
90.000	-.0810	
180.000	-.1740	

MACH (1) = .599 ALPHAT(9) = 7.950

X/LT	.977	1.000
PHI		
.000	-.0510	.0170
90.000	-.0620	
180.000	-.1630	

MACH (2) = .905 ALPHAT(1) = -8.020

X/LT	.977	1.000
PHI		
.000	-.2940	-.1660
90.000	-.2220	
180.000	-.1880	

MACH (2) = .899 ALPHAT(2) = -5.960

X/LT	.977	1.000
PHI		
.000	-.2730	-.1260
90.000	-.2150	
180.000	-.1710	

MACH (2) = .898 ALPHAT(3) = -4.000

X/LT	.977	1.000
PHI		
.000	-.2150	-.1100
90.000	-.1900	
180.000	-.1700	

MACH (2) = .902 ALPHAT(4) = -1.980

X/LT	.977	1.000
PHI		
.000	-.1640	-.1020
90.000	-.1970	
180.000	-.1930	

MACH (2) = .902 ALPHAT(5) = .030

X/LT	.977	1.000
PHI		
.000	-.1240	-.0900
90.000	-.1820	
180.000	-.1890	

MACH (2) = .901 ALPHAT(6) = 2.100

X/LT	.977	1.000
PHI		
.000	-.1030	-.0880
90.000	-.1780	
180.000	-.1950	

DATE 26 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CBA + S3 + T9 EXTERNAL TANK BASE (RBNY01)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = .899 ALPHAT(7) = 4.030

X/LT	.977	1.000
PHI		
.000	-.1000	-.0810
90.000	-.1710	
180.000	-.1880	

MACH (2) = .901 ALPHAT(8) = 6.000

X/LT	.977	1.000
PHI		
.000	-.0830	-.0690
90.000	-.1650	
180.000	-.1810	

MACH (2) = .902 ALPHAT(9) = 8.030

X/LT	.977	1.000
PHI		
.000	-.0840	-.0810
90.000	-.1740	
180.000	-.1820	

MACH (2) = .901 ALPHAT(10) = 10.000

X/LT	.977	1.000
PHI		
.000	-.0690	-.0610
90.000	-.1620	
180.000	-.1640	

MACH (3) = 1.104 ALPHAT(1) = -8.010

X/LT	.977	1.000
PHI		
.000	-.2890	-.2290
90.000	-.2700	
180.000	-.2270	

MACH (3) = 1.101 ALPHAT(2) = -5.990

X/LT	.977	1.000
PHI		
.000	-.2730	-.1960
90.000	-.2340	
180.000	-.2020	

MACH (3) = 1.104 ALPHAT(3) = -3.980

X/LT	.977	1.000
PHI		
.000	-.2300	-.1720
90.000	-.2320	
180.000	-.1980	

MACH (3) = 1.102 ALPHAT(4) = -2.000

X/LT	.977	1.000
PHI		
.000	-.1710	-.1420
90.000	-.2110	
180.000	-.1780	

DATE 26 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNY01)

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (3) = 1.102 ALPHAT(5) = .030

X/LT	.977	1.000
PHI		
.000	-.1480	-.1150
90.000	-.1840	
180.000	-.1700	

MACH (3) = 1.101 ALPHAT(6) = 2.010

X/LT	.977	1.000
PHI		
.000	-.1070	-.0750
90.000	-.1670	
180.000	-.1420	

MACH (3) = 1.102 ALPHAT(7) = 4.020

X/LT	.977	1.000
PHI		
.000	-.0720	-.0640
90.000	-.1520	
180.000	-.1290	

MACH (3) = 1.105 ALPHAT(8) = 5.980

X/LT	.977	1.000
PHI		
.000	-.0490	-.0670
90.000	-.1450	
180.000	-.1180	

MACH (3) = 1.102 ALPHAT(9) = 7.980

X/LT	.977	1.000
PHI		
.000	-.0270	-.0590
90.000	-.1300	
180.000	-.1060	

MACH (3) = 1.102 ALPHAT(10) = 9.950

X/LT	.977	1.000
PHI		
.000	-.0150	-.0380
90.000	-.1190	
180.000	-.0970	

MACH (4) = 1.250 ALPHAT(1) = -8.000

X/LT	.977	1.000
PHI		
.000	-.2700	-.2130
90.000	-.2530	
180.000	-.2160	

MACH (4) = 1.252 ALPHAT(2) = -5.980

X/LT	.977	1.000
PHI		
.000	-.2470	-.1940
90.000	-.2320	
180.000	-.1970	

DATE 28 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 CEA + S3 + T9 EXTERNAL TANK BASE (RBNYD1)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (4) = 1.248 ALPHAT(3) = -4.030

X/LT	.977	1.000
PHI		
.000	-.2220	-.1700
90.000	-.2120	
180.000	-.1820	

MACH (4) = 1.250 ALPHAT(4) = -1.980

X/LT	.977	1.000
PHI		
.000	-.1770	-.1460
90.000	-.2080	
180.000	-.1780	

MACH (4) = 1.249 ALPHAT(5) = .040

X/LT	.977	1.000
PHI		
.000	-.1430	-.1180
90.000	-.1970	
180.000	-.1690	

MACH (4) = 1.247 ALPHAT(6) = 2.030

X/LT	.977	1.000
PHI		
.000	-.0940	-.0980
90.000	-.1740	
180.000	-.1440	

MACH (4) = 1.248 ALPHAT(7) = 4.040

X/LT	.977	1.000
PHI		
.000	-.0700	-.0790
90.000	-.1460	
180.000	-.1280	

MACH (4) = 1.247 ALPHAT(8) = 6.010

X/LT	.977	1.000
PHI		
.000	-.0500	-.0680
90.000	-.1270	
180.000	-.1120	

MACH (4) = 1.247 ALPHAT(9) = 8.010

X/LT	.977	1.000
PHI		
.000	-.0390	-.0620
90.000	-.1170	
180.000	-.1020	

MACH (4) = 1.246 ALPHAT(10) = 9.980

X/LT	.977	1.000
PHI		
.000	-.0320	-.0560
90.000	-.1130	
180.000	-.0910	

DATE 26 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY02) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORDINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .598 ALPHAT(1) = -8.020

	X/LT .977	1.000
PHI		
.000	-.2360	-.0440
90.000	-.2750	
180.000	-.1810	

MACH (1) = .598 ALPHAT(2) = -6.020

	X/LT .977	1.000
PHI		
.000	-.2250	-.0560
90.000	-.2170	
180.000	-.1870	

MACH (1) = .599 ALPHAT(3) = -3.990

	X/LT .977	1.000
PHI		
.000	-.1870	-.0610
90.000	-.1970	
180.000	-.2000	

MACH (1) = .598 ALPHAT(4) = -1.910

	X/LT .977	1.000
PHI		
.000	-.1680	-.0500
90.000	-.1900	
180.000	-.1720	

MACH (1) = .599 ALPHAT(5) = .020

	X/LT .977	1.000
PHI		
.000	-.1560	-.0410
90.000	-.1670	
180.000	-.1750	

MACH (1) = .599 ALPHAT(6) = 2.020

	X/LT .977	1.000
PHI		
.000	-.1150	-.0380
90.000	-.1440	
180.000	-.1900	

MACH (1) = .597 ALPHAT(7) = 4.020

	X/LT .977	1.000
PHI		
.000	-.0800	-.0240
90.000	-.1080	
180.000	-.1830	

DATE 26 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7DT IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY02)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .599 ALPHAT(8) = 6.010

	X/LT .977	1.000
PHI		
.000	-.0610	-.0060
90.000	-.0690	
180.000	-.1810	

MACH (1) = .597 ALPHAT(9) = 8.000

	X/LT .977	1.000
PHI		
.000	-.0630	.0060
90.000	-.0910	
180.000	-.1710	

MACH (2) = .903 ALPHAT(1) = -8.000

	X/LT .977	1.000
PHI		
.000	-.3100	-.1800
90.000	-.2310	
180.000	-.1990	

MACH (2) = .901 ALPHAT(2) = -6.020

	X/LT .977	1.000
PHI		
.000	-.2920	-.1380
90.000	-.2310	
180.000	-.1870	

MACH (2) = .900 ALPHAT(3) = -4.030

	X/LT .977	1.000
PHI		
.000	-.2390	-.1080
90.000	-.2030	
180.000	-.1740	

MACH (2) = .898 ALPHAT(4) = -1.990

	X/LT .977	1.000
PHI		
.000	-.1740	-.1050
90.000	-.1920	
180.000	-.1720	

MACH (2) = .899 ALPHAT(5) = .010

	X/LT .977	1.000
PHI		
.000	-.1350	-.0900
90.000	-.1970	
180.000	-.1840	

MACH (2) = .898 ALPHAT(6) = 2.040

	X/LT .977	1.000
PHI		
.000	-.1020	-.0760
90.000	-.1760	
180.000	-.1780	

DATE 26 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNY02)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE

SECTION (1)EXTERNAL TANK BASE DEPENCENT VARIABLE CP

MACH (2) = .905 ALPHAT(7) = 4.040

X/LT	.977	1.000
PHI		
.000	-.0950	-.0760
90.000	-.1680	
180.000	-.1830	

MACH (2) = .897 ALPHAT(8) = 6.030

X/LT	.977	1.000
PHI		
.000	-.0670	-.0690
90.000	-.1500	
180.000	-.1700	

MACH (2) = .900 ALPHAT(9) = 8.000

X/LT	.977	1.000
PHI		
.000	-.0620	-.0630
90.000	-.1530	
180.000	-.1720	

MACH (3) = 1.102 ALPHAT(1) = -8.050

X/LT	.977	1.000
PHI		
.000	-.3050	-.2440
90.000	-.2620	
180.000	-.2490	

MACH (3) = 1.103 ALPHAT(2) = -6.010

X/LT	.977	1.000
PHI		
.000	-.2880	-.2020
90.000	-.2380	
180.000	-.2280	

MACH (3) = 1.102 ALPHAT(3) = -4.000

X/LT	.977	1.000
PHI		
.000	-.2160	-.1850
90.000	-.2480	
180.000	-.2290	

MACH (3) = 1.102 ALPHAT(4) = -1.990

X/LT	.977	1.000
PHI		
.000	-.1870	-.1550
90.000	-.2270	
180.000	-.2030	

MACH (3) = 1.102 ALPHAT(5) = -.030

X/LT	.977	1.000
PHI		
.000	-.1560	-.1260
90.000	-.1970	
180.000	-.1740	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY02)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (3) = 1.102 ALPHAT(6) = 1.980

	X/LT .977	1.000
PHI		
.000	-.1190	-.0830
90.000	-.1740	
180.000	-.1540	

MACH (3) = 1.102 ALPHAT(7) = 3.980

	X/LT .977	1.000
PHI		
.000	-.0970	-.0730
90.000	-.1540	
180.000	-.1310	

MACH (3) = 1.102 ALPHAT(8) = 5.970

	X/LT .977	1.000
PHI		
.000	-.0880	-.0640
90.000	-.1490	
180.000	-.1120	

MACH (3) = 1.101 ALPHAT(9) = 7.940

	X/LT .977	1.000
PHI		
.000	-.0550	-.0600
90.000	-.1460	
180.000	-.1060	

MACH (4) = 1.249 ALPHAT(1) = -8.080

	X/LT .977	1.000
PHI		
.000	-.2810	-.2260
90.000	-.2660	
180.000	-.2330	

MACH (4) = 1.248 ALPHAT(2) = -6.020

	X/LT .977	1.000
PHI		
.000	-.2520	-.2050
90.000	-.2350	
180.000	-.2200	

MACH (4) = 1.249 ALPHAT(3) = -3.980

	X/LT .977	1.000
PHI		
.000	-.2310	-.1870
90.000	-.2230	
180.000	-.2030	

MACH (4) = 1.245 ALPHAT(4) = -1.950

	X/LT .977	1.000
PHI		
.000	-.1860	-.1580
90.000	-.2140	
180.000	-.1920	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

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AMES 11-7D7 IA9 C2A + S3 + T9 EXTERNAL TANK BASE (RBMY02)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (4) = 1.248 ALPHAT(5) = .040

	X/LT .977	1.000
PHI		
.000	-.1680	-.1400
90.000	-.2040	
180.000	-.1800	

MACH (4) = 1.244 ALPHAT(6) = 2.030

	X/LT .977	1.000
PHI		
.000	-.1280	-.1090
90.000	-.1810	
180.000	-.1620	

MACH (4) = 1.245 ALPHAT(7) = 3.970

	X/LT .977	1.000
PHI		
.000	-.0940	-.0880
90.000	-.1580	
180.000	-.1400	

MACH (4) = 1.245 ALPHAT(8) = 5.990

	X/LT .977	1.000
PHI		
.000	-.0740	-.0830
90.000	-.1350	
180.000	-.1260	

MACH (4) = 1.247 ALPHAT(9) = 7.980

	X/LT .977	1.000
PHI		
.000	-.0660	-.0670
90.000	-.1200	
180.000	-.1040	

MACH (5) = 1.401 ALPHAT(1) = -0.050

	X/LT .977	1.000
PHI		
.000	-.2710	-.2230
90.000	-.2600	
180.000	-.2400	

MACH (5) = 1.398 ALPHAT(2) = -3.970

	X/LT .977	1.000
PHI		
.000	-.2440	-.2010
90.000	-.2340	
180.000	-.2190	

MACH (5) = 1.398 ALPHAT(3) = -3.980

	X/LT .977	1.0[illegible]
PHI		
.000	-.2230	-.1850
90.000	-.2150	
180.000	-.1960	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBHY02)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (5) = 1.396 ALPHAT(4) = -1.990

	X/LT .977	1.000
PHI		
.000	-.1800	-.1580
90.000	-.2080	
180.000	-.1870	

MACH (5) = 1.398 ALPHAT(5) = .040

	X/LT .977	1.000
PHI		
.000	-.1550	-.1380
90.000	-.1680	
180.000	-.1700	

MACH (5) = 1.395 ALPHAT(6) = 2.000

	X/LT .977	1.000
PHI		
.000	-.1360	-.1220
90.000	-.1790	
180.000	-.1530	

MACH (5) = 1.394 ALPHAT(7) = 3.980

	X/LT .977	1.000
PHI		
.000	-.1130	-.0990
90.000	-.1570	
180.000	-.1440	

MACH (5) = 1.396 ALPHAT(8) = 6.030

	X/LT .977	1.000
PHI		
.000	-.0750	-.0810
90.000	-.1440	
180.000	-.1170	

MACH (5) = 1.391 ALPHAT(9) = 7.990

	X/LT .977	1.000
PHI		
.000	-.0510	-.0780
90.000	-.1230	
180.000	-.1040	

AMES 11-707 IA9 C2A + S3 + T9 EXTERNAL TANK BASE (RBMY03) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .900
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .999 BETAT (1) = -8.090

X/LT	.977	1.000
PHI		
.000	-.2650	-.1060
90.000	-.1920	
180.000	-.3770	

MACH (1) = .998 BETAT (2) = -6.030

X/LT	.977	1.000
PHI		
.000	-.2480	-.0710
90.000	-.1660	
180.000	-.3230	

MACH (1) = .998 BETAT (3) = -4.020

X/LT	.977	1.000
PHI		
.000	-.2370	-.0450
90.000	-.1750	
180.000	-.2670	

MACH (1) = .998 BETAT (4) = -2.000

X/LT	.977	1.000
PHI		
.000	-.2410	-.0340
90.000	-.2000	
180.000	-.2050	

MACH (1) = .998 BETAT (5) = .020

X/LT	.977	1.000
PHI		
.000	-.2320	-.0390
90.000	-.2690	
180.000	-.1830	

MACH (1) = .998 BETAT (6) = 2.080

X/LT	.977	1.000
PHI		
.000	-.2200	-.0610
90.000	-.2680	
180.000	-.1900	

MACH (1) = .998 BETAT (7) = 4.100

X/LT	.977	1.000
PHI		
.000	-.2310	-.0720
90.000	-.2910	
180.000	- .430	

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY03)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .598 BETAT (8) = 6.140

	X/LT .977	1.000
PHI		
.000	-.2640	-.1150
90.000	-.2790	
180.000	-.2770	

MACH (1) = .599 BETAT (9) = 8.180

	X/LT .977	1.000
PHI		
.000	-.2810	-.1360
90.000	-.2910	
180.000	-.3170	

MACH (2) = .901 BETAT (1) = -8.140

	X/LT .977	1.000
PHI		
.000	-.3470	-.2570
90.000	-.2890	
180.000	-.2680	

MACH (2) = .900 BETAT (2) = -6.100

	X/LT .977	1.000
PHI		
.000	-.3250	-.2250
90.000	-.2420	
180.000	-.2360	

MACH (2) = .900 BETAT (3) = -4.050

	X/LT .977	1.000
PHI		
.000	-.3180	-.1840
90.000	-.2120	
180.000	-.2150	

MACH (2) = .898 BETAT (4) = -2.020

	X/LT .977	1.000
PHI		
.000	-.3010	-.1660
90.000	-.2110	
180.000	-.1920	

MACH (2) = .899 BETAT (5) = 2.06

	X/LT .977	1.000
PHI		
.000	-.3070	-.1750
90.000	-.2730	
180.000	-.2060	

MACH (2) = .898 BETAT (6) = 4.140

	X/LT .977	1.000
PHI		
.000	-.3090	-.1840
90.000	-.3100	
180.000	-.2270	

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE (RBNY03)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = .901 BETAT (7) = 6.210

X/LT	.977	1.000
PHI		
.000	-.3330	-.2280
90.000	-.3550	
180.000	-.2720	

MACH (2) = .900 BETAT (8) = 8.270

X/LT	.977	1.000
PHI		
.000	-.3380	-.2500
90.000	-.3700	
180.000	-.3050	

MACH (3) = 1.101 BETAT (1) = -8.170

X/LT	.977	1.000
PHI		
.000	-.3300	-.2810
90.000	-.3300	
180.000	-.2970	

MACH (3) = 1.100 BETAT (2) = -6.120

X/LT	.977	1.000
PHI		
.000	-.3240	-.2590
90.000	-.2940	
180.000	-.2560	

MACH (3) = 1.102 BETAT (3) = -4.080

X/LT	.977	1.000
PHI		
.000	-.3080	-.2410
90.000	-.2660	
180.000	-.2270	

MACH (3) = 1.100 BETAT (4) = -2.030

X/LT	.977	1.000
PHI		
.000	-.2980	-.2360
90.000	-.2550	
180.000	-.2360	

MACH (3) = 1.099 BETAT (5) = .020

X/LT	.977	1.000
PHI		
.000	-.3040	-.2400
90.000	-.2780	
180.000	-.2500	

MACH (3) = 1.101 BETAT (6) = 2.090

X/LT	.977	1.000
PHI		
.000	-.3030	-.2400
90.000	-.2610	
180.000	-.2370	

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY03)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (3) = 1.100 BETAT (7) = 4.160

	X/LT .977	1.000
PHI		
.000	-.3140	-.2510
90.000	-.2560	
180.000	-.2400	

MACH (3) = 1.103 BETAT (8) = 6.240

	X/LT .977	1.000
PHI		
.000	-.3240	-.2700
90.000	-.2680	
180.000	-.2640	

MACH (3) = 1.101 BETAT (9) = 7.800

	X/LT .977	1.000
PHI		
.000	-.3300	-.2800
90.000	-.3200	
180.000	-.2950	

MACH (4) = 1.248 BETAT (1) = -8.130

	X/LT .977	1.000
PHI		
.000	-.2810	-.2480
90.000	-.2920	
180.000	-.2480	

MACH (4) = 1.249 BETAT (2) = -6.080

	X/LT .977	1.000
PHI		
.000	-.2770	-.2340
90.000	-.2640	
180.000	-.2280	

MACH (4) = 1.245 BETAT (3) = -4.050

	X/LT .977	1.000
PHI		
.000	-.2770	-.2210
90.000	-.2510	
180.000	-.2130	

MACH (4) = 1.248 BETAT (4) = -2.020

	X/LT .977	1.000
PHI		
.000	-.2850	-.2260
90.000	-.2520	
180.000	-.2290	

MACH (4) = 1.247 BETAT (5) = 2.080

	X/LT .977	1.000
PHI		
.000	-.2830	-.2340
90.000	-.2510	
180.000	-.2330	

AMES 11-7D7 IA9 O2A + S3 + T9 EXTERNAL TANK BASE (RBNY03)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (4) = 1.247 BETAT (6) = 4.140

X/LT	.977	1.000
PHI		
.000	-.2730	-.2170
90.000	-.2430	
180.000	-.2020	

MACH (4) = 1.248 BETAT (7) = 6.190

X/LT	.977	1.000
PHI		
.000	-.2890	-.2430
90.000	-.2540	
180.000	-.2360	

MACH (4) = 1.291 BETAT (8) = 8.250

X/LT	.977	1.000
PHI		
.000	-.2990	-.2590
90.000	-.3020	
180.000	-.2610	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY04) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 99.8490 INCHES YMRP = .0000 INCHES
BREF = 99.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .978 BETAT (1) = -8.080

PHI	X/LT .977	1.000
.000	-.2500	-.1230
90.000	-.1640	
180.000	-.3380	

MACH (1) = .997 BETAT (2) = -6.040

PHI	X/LT .977	1.000
.000	-.2200	-.0910
90.000	-.1380	
180.000	-.2860	

MACH (1) = .999 BETAT (3) = -4.020

PHI	X/LT .977	1.000
.000	-.2220	-.0840
90.000	-.1380	
180.000	-.2390	

MACH (1) = .999 BETAT (4) = -2.000

PHI	X/LT .977	1.000
.000	-.2520	-.0310
90.000	-.1900	
180.000	-.1910	

MACH (1) = .800 BETAT (5) = .020

PHI	X/LT .977	1.000
.000	-.2060	-.0430
90.000	-.2360	
180.000	-.1840	

MACH (1) = .999 BETAT (6) = 2.080

PHI	X/LT .977	1.000
.000	-.2100	-.0810
90.000	-.2410	
180.000	-.1850	

MACH (1) = .999 BETAT (7) = 4.090

PHI	X/LT .977	1.000
.000	-.2270	-.0990
90.000	-.2480	
180.000	-.2230	

AMES 11-707 IA9 02A + 53 + 79 EXTERNAL TANK BASE (RBNY04)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .800 BETAT (8) = 6.120

	X/LT .977	1.000
PHI		
.000	-.2330	-.1100
90.000	-.2690	
180.000	-.2680	

MACH (1) = .801 BETAT (9) = 8.160

	X/LT .977	1.000
PHI		
.000	-.2660	-.1310
90.000	-.2900	
180.000	-.3210	

MACH (2) = .899 BETAT (1) = -8.160

	X/LT [illegible]	1.000
PHI		
.000	-.3060	-.2400
90.000	-.2660	
180.000	-.2640	

MACH (2) = .897 BETAT (2) = -6.100

	X/LT .977	1.000
PHI		
.000	-.2940	-.1980
90.000	-.2140	
180.000	-.2190	

MACH (2) = .902 BETAT (3) = -4.070

	X/LT .977	1.000
PHI		
.000	-.2850	-.1540
90.000	-.1810	
180.000	-.2060	

MACH (2) = .900 BETAT (4) = -2.050

	X/LT .977	1.000
PHI		
.000	-.2830	-.1360
90.000	-.1910	
180.000	-.1890	

MACH (2) = .902 BETAT (5) = 2.080

	X/LT .977	1.000
PHI		
.000	-.2880	-.1520
90.000	-.2730	
180.000	-.1970	

MACH (2) = .903 BETAT (6) = 4.140

	X/LT .977	1.000
PHI		
.000	-.2730	-.1600
90.000	-.2980	
180.000	-.2160	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RDNY04)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = .900 BETAT (7) = 6.190

X/LT	.977	1.000
PHI		
.000	-.3040	-.2180
90.000	-.3400	
180.000	-.2490	

MACH (2) = .898 BETAT (8) = 8.240

X/LT	.977	1.000
PHI		
.000	-.3070	-.2390
90.000	-.3640	
180.000	-.2910	

MACH (3) = 1.100 BETAT (1) = -8.190

X/LT	.977	1.000
PHI		
.000	-.2900	-.2520
90.000	-.3080	
180.000	-.2870	

MACH (3) = 1.099 BETAT (2) = -6.120

X/LT	.977	1.000
PHI		
.000	-.2880	-.2900
90.000	-.2570	
180.000	-.2320	

MACH (3) = 1.101 BETAT (3) = -4.080

X/LT	.977	1.000
PHI		
.000	-.2780	-.2140
90.000	-.2340	
180.000	-.2100	

MACH (3) = 1.101 BETAT (4) = -2.030

X/LT	.977	1.000
PHI		
.000	-.2740	-.2180
90.000	-.2310	
180.000	-.2200	

MACH (3) = 1.099 BETAT (5) = 2.090

X/LT	.977	1.000
PHI		
.000	-.2810	-.2030
90.000	-.2250	
180.000	-.2030	

MACH (3) = 1.098 BETAT (6) = 4.150

X/LT	.977	1.000
PHI		
.000	-.2770	-.2070
90.000	-.2460	
180.000	-.2120	

AMES 11-7D? IA9 OPA + S3 + T9 EXTERNAL TANK BASE (RUNY04)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (3) = 1.100 BETAT (7) = 6.210

X/LT	.977	1.000
PHI		
.000	-.2940	-.2410
90.000	-.2770	
180.000	-.2370	

MACH (3) = 1.098 BETAT (8) D

X/LT	.977	1.000
PHI		
.000	-.3060	-.2610
90.000	-.3210	
180.000	-.2870	

MACH (4) = 1.248 BETAT (1) = -8.140

X/LT	.977	1.000
PHI		
.000	-.2440	-.2330
90.000	-.2810	
180.000	-.2450	

MACH (4) = 1.246 BETAT (2) = -6.100

X/LT	.977	1.000
PHI		
.000	-.2470	-.2130
90.000	-.2460	
180.000	-.2130	

MACH (4) = 1.244 BETAT (3) = -4.080

X/LT	.977	1.000
PHI		
.000	-.2450	-.1960
90.000	-.2220	
180.000	-.1970	

MACH (4) = 1.247 BETAT (4) = -2.020

X/LT	.977	1.000
PHI		
.000	-.2540	-.2030
90.000	-.2220	
180.000	-.2130	

MACH (4) = 1.245 BETAT (5) = 2.070

X/LT	.977	1.000
PHI		
.000	-.2570	-.2030
90.000	-.2300	
180.000	-.2070	

MACH (4) = 1.248 BETAT (6) = 4.120

X/LT	.977	1.000
PHI		
.000	-.2510	-.2030
90.000	-.2310	
180.000	-.2010	

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNYD4)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (4) = 1.245 BETAT (7) = 6.170

	X/LT .977	1.000
PHI		
.000	-.2630	-.2230
90.000	-.2620	
180.000	-.2230	

MACH (4) = 1.245 BETAT (8) = 8.210

	X/LT .977	1.000
PHI		
.000	-.2690	-.2390
90.000	-.2690	
180.000	-.2660	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNYD3) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .900
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .800 BETAT (1) = .020

X/LT	.977	1.000
PHI		
.000	-.1840	-.0490
90.000	-.2110	
180.000	-.1940	

MACH (1) = .998 BETAT (2) = 4.080

X/LT	.977	1.000
PHI		
.000	-.2090	-.0900
90.000	-.2380	
180.000	-.2110	

MACH (1) = .999 BETAT (3) = 6.120

X/LT	.977	1.000
PHI		
.000	-.2290	-.0940
90.000	-.2560	
180.000	-.2630	

MACH (1) = .999 BETAT (4) = 8.150

X/LT	.977	1.000
PHI		
.000	-.2240	-.1270
90.000	-.2780	
180.000	-.3240	

MACH (2) = .903 BETAT (1) = -8.170

X/LT	.977	1.000
PHI		
.000	-.2740	-.2090
90.000	-.2840	
180.000	-.2620	

MACH (2) = .901 BETAT (2) = -6.110

X/LT	.977	1.000
PHI		
.000	-.2510	-.1800
90.000	-.2160	
180.000	-.2260	

MACH (2) = .902 BETAT (3) = -4.070

X/LT	.977	1.000
PHI		
.000	-.2380	-.1320
90.000	-.1950	
180.000	-.2100	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RUN 105)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = .901 BETAT (4) = -2.030

PHI	X/LT .977	1.000
.000	-.2380	-.1190
90.000	-.1980	
180.000	-.1710	

MACH (2) = .903 BETAT (5) = 2.070

PHI	X/LT .977	1.000
.000	-.2480	-.1130
90.000	-.2560	
180.000	-.1860	

MACH (2) = .900 BETAT (6) = 4.120

PHI	X/LT .977	1.000
.000	-.2540	-.1350
90.000	-.2780	
180.000	-.2060	

MACH (2) = .904 BETAT (7) = 6.170

PHI	X/LT .977	1.000
.000	-.2990	-.1640
90.000	-.2990	
180.000	-.2410	

MACH (2) = .899 BETAT (8) = 8.230

PHI	X/LT .977	1.000
.000	-.2870	-.2190
90.000	-.3330	
180.000	-.3010	

MACH (3) = 1.100 BETAT (1) = -8.200

PHI	X/LT .977	1.000
.000	-.2550	-.2340
90.00	-.3040	
180.000	-.2730	

MACH (3) = 1.097 BETAT (2) = -6.130

PHI	X/LT .977	1.000
.000	-.2530	-.1940
90.000	-.2520	
180.000	-.2280	

MACH (3) = 1.101 BETAT (3) = -4.080

PHI	X/LT .977	1.000
.000	-.2500	-.1780
90.000	-.2350	
180.000	-.1970	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY05)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (3) = 1.099 BETAT (4) = -2.030

X/LT	.977	1.000
PHI		
.000	-.2400	-.1700
90.000	-.2400	
180.000	-.2110	

MACH (3) = 1.101 BETAT (5) = 2.080

X/LT	.977	1.000
PHI		
.000	-.2390	-.1790
90.000	-.2270	
180.000	-.2010	

MACH (3) = 1.102 BETAT (6) = 4.140

X/LT	.977	1.000
PHI		
.000	-.2410	-.1850
90.000	-.2290	
180.000	-.2110	

MACH (3) = 1.100 BETAT (7) = 6.200

X/LT	.977	1.000
PHI		
.000	-.2540	-.2040
90.000	-.2650	
180.000	-.2430	

MACH (3) = 1.100 BETAT (8) = 8.270

X/LT	.977	1.000
PHI		
.000	-.2720	-.2240
90.000	-.2990	
180.000	-.2680	

MACH (4) = 1.245 BETAT (1) = -8.150

X/LT	.977	1.000
PHI		
.000	-.2580	-.2210
90.000	-.2760	
180.000	-.2380	

MACH (4) = 1.245 BETAT (2) = -6.110

X/LT	.977	1.000
PHI		
.000	-.2110	-.1970
90.000	-.2430	
180.000	-.2040	

MACH (4) = 1.245 BETAT (3) = -4.080

X/LT	.977	1.000
PHI		
.000	-.2150	-.1780
90.000	-.2050	
180.000	-.1820	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY05)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (4) = 1.246 BETAT (4) = -2.020

	X/LT .977	1.000
PHI		
.000	-.2280	-.1810
90.000	-.2010	
180.000	-.1990	

MACH (4) = 1.243 BETAT (5) = 2.080

	X/LT .977	1.000
PHI		
.000	-.2260	-.1780
90.000	-.2140	
180.000	-.2040	

MACH (4) = 1.241 BETAT (6) = 4.120

	X/LT .977	1.000
PHI		
.000	-.2220	-.1830
90.000	-.2110	
180.000	-.1890	

MACH (4) = 1.244 BETAT (7) = 6.160

	X/LT .977	1.000
PHI		
.000	-.2470	-.1960
90.000	-.2420	
180.000	-.2210	

MACH (4) = 1.247 BETAT (8) = 8.210

	X/LT .977	1.000
PHI		
.000	-.2490	-.2160
90.000	-.2740	
180.000	-.2670	

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY08) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0900 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .900
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .999 BETAT (1) = -8.090

PHI	X/LT .977	1.000
.000	-.1680	-.0980
90.000	-.2780	
180.000	-.2970	

MACH (1) = .999 BETAT (2) = -6.080

PHI	X/LT .977	1.000
.000	-.1560	-.0900
90.000	-.2220	
130.000	-.2570	

MACH (1) = .998 BETAT (3) = -4.040

PHI	X/LT .977	1.000
.000	-.1430	-.0510
90.000	-.1530	
180.000	-.2260	

MACH (1) = .600 BETAT (4) = -2.000

PHI	X/LT .977	1.000
.000	-.1440	-.0540
90.000	-.1760	
180.000	-.1920	

MACH (1) = .200 BETAT (5) = .020

PHI	X/LT .977	1.000
.000	-.1520	-.0530
90.000	-.1920	
180.000	-.1860	

MACH (1) = .601 BETAT (6) = 2.050

PHI	X/LT .977	1.000
.000	-.1690	-.0800
90.000	-.2050	
180.000	-.2010	

MACH (1) = .601 BETAT (7) = 4.080

PHI	X/LT .977	1.000
.000	-.1490	-.0870
90.000	-.2220	
180.000	-.2150	

AMES 11-707 IA9 CRA + S3 + T9 EXTERNAL TANK BASE (RBNYD8)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .999 BETAT (8) = 6.110

	X/LT .977	1.000
PHI		
.000	-.1420	-.1040
90.000	-.2090	
180.000	-.2550	

MACH (1) = .000 BETAT (9) = 8.140

	X/LT .977	1.000
PHI		
.000	-.1840	-.1240
90.000	-.2410	
180.000	-.2890	

MACH (2) = .904 BETAT (1) = -8.180

	X/LT .977	1.000
PHI		
.000	-.2530	-.1970
90.000	-.2970	
180.000	-.2780	

MACH (2) = .901 BETAT (2) = -6.130

	X/LT .977	1.000
PHI		
.000	-.2180	-.1370
90.000	-.2420	
180.000	-.2160	

MACH (2) = .902 BETAT (3) = -4.070

	X/LT .977	1.000
PHI		
.000	-.1980	-.1150
90.000	-.2200	
180.000	-.2090	

MACH (2) = .901 BETAT (4) = -2.030

	X/LT .977	1.000
PHI		
.000	-.1750	-.1090
90.000	-.1890	
180.000	-.1820	

MACH (2) = .903 BETAT (5) = 2.080

	X/LT .977	1.000
PHI		
.000	-.1870	-.1110
90.000	-.2080	
180.000	-.1920	

MACH (2) = .909 BETAT (6) = 4.130

	X/LT .977	1.000
PHI		
.000	-.2170	-.1140
90.000	-.2490	
180.000	-.1980	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNYD6)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = .907 BETAT (7) = 6.160

X/LT	.977	1.000
PHI		
.000	-.2300	-.1440
90.000	-.2920	
180.000	-.2470	

MACH (2) = .904 BETAT (8) = 8.230

X/LT	.977	1.000
PHI		
.000	-.2630	-.2090
90.000	-.3310	
180.000	-.3090	

MACH (3) = 1.099 BETAT (1) = -8.210

X/LT	.977	1.000
PHI		
.000	-.2250	-.2020
90.000	-.2950	
180.000	-.2810	

MACH (3) = 1.100 BETAT (2) = -6.140

X/LT	.977	1.000
PHI		
.000	-.2240	-.1660
90.000	-.2470	
180.000	-.2310	

MACH (3) = 1.100 BETAT (3) = -4.080

X/LT	.977	1.000
PHI		
.000	-.2360	-.1420
90.000	-.2090	
180.000	-.1840	

MACH (3) = 1.099 BETAT (4) = -2.030

X/LT	.977	1.000
PHI		
.000	-.2120	-.1420
90.000	-.2110	
180.000	-.1810	

MACH (3) = 1.101 BETAT (5) = 2.080

X/LT	.977	1.000
PHI		
.000	-.1780	-.1410
90.000	-.2100	
180.000	-.1960	

MACH (3) = 1.100 BETAT (6) = 4.130

X/LT	.977	1.000
PHI		
.000	-.1790	-.1540
90.000	-.2100	
180.000	-.2010	

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK BASE (RBNY08)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (3) = 1.199 BETAT (7) = 6.190

	X/LT .977	1.000
PHI		
.000	-.2080	-.1810
90.000	-.2490	
180.000	-.2320	

MACH (3) = 1.101 BETAT (8) = 8.280

	X/LT .977	1.000
PHI		
.000	-.2380	-.2090
90.000	-.2870	
180.000	-.2650	

MACH (4) = 1.248 BETAT (1) = -8.160

	X/LT .977	1.000
PHI		
.000	-.2440	-.1910
90.000	-.2540	
180.000	-.2090	

MACH (4) = 1.248 BETAT (2) = -6.110

	X/LT .977	1.000
PHI		
.000	-.2370	-.1590
90.000	-.2210	
180.000	-.1750	

MACH (4) = 1.248 BETAT (3) = -4.070

	X/LT .977	1.000
PHI		
.000	-.2200	-.1440
90.000	-.2020	
180.000	-.1680	

MACH (4) = 1.248 BETAT (4) = -2.030

	X/LT .977	1.000
PHI		
.000	-.2040	-.1490
90.000	-.2180	
180.000	-.1880	

MACH (4) = 1.248 BETAT (5) = 2.070

	X/LT .977	1.000
PHI		
.000	-.1910	-.1530
90.000	-.2030	
180.000	-.2050	

MACH (4) = 1.247 BETAT (6) = 4.110

	X/LT .977	1.000
PHI		
.000	-.1700	-.1540
90.000	-.2020	
180.000	-.1920	

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY06)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (4) = 1.248 BETAT (7) = 6.160

X/LT	.977	1.000
PHI		
.000	-.1880	-.1790
90.000	-.2210	
180.000	-.2100	

MACH (4) = 1.248 BETAT (8) = 8.250

X/LT	.977	1.000
PHI		
.000	-.2040	-.2010
90.000	-.2510	
180.000	-.2560	

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY07) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .900
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .597 BETAT (1) = -8.100

PHI	X/LT .977	1.000
.000	-.1390	-.1100
90.000	-.2580	
180.000	-.2780	

MACH (1) = .598 BETAT (2) = -6.080

PHI	X/LT .977	1.000
.000	-.1180	-.0870
90.000	-.2200	
180.000	-.2450	

MACH (1) = .598 BETAT (3) = -4.050

PHI	X/LT .977	1.000
.000	-.1490	-.0520
90.000	-.1470	
180.000	-.2320	

MACH (1) = .595 BETAT (4) = -2.080

PHI	X/LT .977	1.000
.000	-.1590	-.0440
90.000	-.1380	
180.000	-.1830	

MACH (1) = .597 BETAT (5) = .020

PHI	X/LT .977	1.000
.000	-.1530	-.0570
90.000	-.1790	
180.000	-.1710	

MACH (1) = .597 BETAT (6) = 2.050

PHI	X/LT .977	1.000
.000	-.1070	-.0490
90.000	-.1640	
180.000	-.1930	

MACH (1) = .599 BETAT (7) = 4.080

PHI	X/LT .977	1.000
.000	-.1410	-.0480
90.000	-.2020	
180.000	-.2130	

AMES 11-707 !A9 OEA + S3 + T9 EXTERNAL TANK BASE (RDNY07)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .597 BETAT (8) = 0.110

	X/LT .977	1.000
PHI		
.000	-.1210	-.1100
90.000	-.2100	
180.000	-.2500	

MACH (1) = .597 BETAT (9) = 0.140

	X/LT .977	1.000
PHI		
.000	-.1320	-.1250
90.000	-.2090	
180.000	-.2610	

MACH (2) = .900 BETAT (1) = -0.180

	X/LT .977	1.000
PHI		
.000	-.2170	-.1710
90.000	-.3000	
180.000	-.2870	

MACH (2) = .899 BETAT (2) = -0.140

	X/LT .977	1.000
PHI		
.000	-.1810	-.1230
90.000	-.2480	
180.000	-.2240	

MACH (2) = .899 BETAT (3) = -0.080

	X/LT .977	1.000
PHI		
.000	-.1600	-.0960
90.000	-.2160	
180.000	-.2030	

MACH (2) = .901 BETAT (4) = -2.030

	X/LT .977	1.000
PHI		
.000	-.1480	-.0990
90.000	-.1920	
180.000	-.1940	

MACH (2) = .901 BETAT (5) = .020

	X/LT .977	1.000
PHI		
.000	-.1400	-.0880
90.000	-.1900	
180.000	-.1830	

MACH (2) = .901 BETAT (6) = 2.070

	X/LT .977	1.000
PHI		
.000	-.1420	-.1050
90.000	-.1940	
180.000	-.1870	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RUNYOT;

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = .908 BETAT (7) = 4.120

X/LT	.977	1.000
PHI		
.000	-.1700	-.1070
90.000	-.2390	
180.000	-.2100	

MACH (2) = .901 BETAT (8) = 6.180

X/LT	.977	1.000
PHI		
.000	-.2010	-.1310
90.000	-.2740	
180.000	-.2370	

MACH (2) = .901 BETAT (9) = 8.220

X/LT	.977	1.000
PHI		
.000	-.2400	-.1780
90.000	-.3030	
180.000	-.3040	

MACH (3) = 1.100 BETAT (1) = -8.210

X/LT	.977	1.000
PHI		
.000	-.2260	-.1650
90.000	-.2740	
180.000	-.2450	

MACH (3) = 1.099 BETAT (2) = -6.140

X/LT	.977	1.000
PHI		
.000	-.2190	-.1440
90.000	-.2340	
180.000	-.2170	

MACH (3) = 1.098 BETAT (3) = -4.080

X/LT	.977	1.000
PHI		
.000	-.1950	-.1190
90.000	-.1990	
180.000	-.1710	

MACH (3) = 1.101 BETAT (4) = -2.050

X/LT	.977	1.000
PHI		
.000	-.1440	-.1170
90.000	-.1970	
180.000	-.1720	

MACH (3) = 1.099 BETAT (5) = 2.070

X/LT	.977	1.000
PHI		
.000	-.1340	-.1290
90.000	-.1960	
180.000	-.1880	

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY07)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (3) = 1.100 BETAT (6) = 4.140

X/LT	.977	1.000
PHI		
.000	-.1490	-.1420
90.000	-.1990	
180.000	-.1880	

MACH (3) = 1.101 BETAT (7) = 6.200

X/LT	.977	1.000
PHI		
.000	-.1710	-.1700
90.000	-.2370	
180.000	-.2470	

MACH (3) = 1.101 BETAT (8) = 8.250

X/LT	.977	1.000
PHI		
.000	-.2230	-.2080
90.000	-.2740	
180.000	-.2720	

MACH (4) = 1.249 BETAT (1) = -8.160

X/LT	.977	1.000
PHI		
.000	-.2380	-.1840
90.000	-.2400	
180.000	-.1940	

MACH (4) = 1.248 BETAT (2) = -6.110

X/LT	.977	1.000
PHI		
.000	-.2110	-.1400
90.000	-.1990	
180.000	-.1670	

MACH (4) = 1.248 BETAT (3) = -4.080

X/LT	.977	1.000
PHI		
.000	-.1900	-.1280
90.000	-.1945	
180.000	-.1530	

MACH (4) = 1.247 BETAT (4) = -2.030

X/LT	.977	1.000
PHI		
.000	-.1560	-.1300
90.000	-.2040	
180.000	-.1860	

MACH (4) = 1.247 BETAT (5) = 2.060

X/LT	.977	1.000
PHI		
.000	-.1450	-.1320
90.000	-.1880	
180.000	-.2010	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMYD7)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (4) = 1.245 BETAT (6) = 4.100

X/LT	.977	1.000
PHI		
.000	-.1570	-.1250
90.000	-.1790	
180.000	-.1770	

MACH (4) = 1.246 BETAT (7) = 6.150

X/LT	.977	1.000
PHI		
.000	-.1730	-.1430
90.000	-.1990	
180.000	-.1960	

MACH (4) = 1.247 BETAT (8) = 8.190

X/LT	.977	1.000
PHI		
.000	-.2010	-.1700
90.000	-.2210	
180.000	-.2360	

MACH (5) = 1.395 BETAT (1) = -8.160

X/LT	.977	1.000
PHI		
.000	-.2290	-.1880
90.000	-.2120	
180.000	-.2120	

MACH (5) = 1.395 BETAT (2) = -6.120

X/LT	.977	1.000
PHI		
.000	-.2180	-.1760
90.000	-.1880	
180.000	-.1960	

MACH (5) = 1.397 BETAT (3) = -4.080

X/LT	.977	1.000
PHI		
.000	-.2070	-.1520
90.000	-.1940	
180.000	-.1700	

MACH (5) = 1.398 BETAT (4) = .020

X/LT	.977	1.000
PHI		
.000	-.1620	-.1430
90.000	-.1970	
180.000	-.1740	

MACH (5) = 1.394 BETAT (5) = 4.110

X/LT	.977	1.000
PHI		
.000	-.1860	-.1540
90.000	-.1870	
180.000	-.1820	

DATE 28 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNY07)

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (5) = 1.392 BETAT (6) = 0.210

X/LT	.977	1.000
PHI		
.000	-.2270	-.1840
90.000	-.2290	
180.000	-.2220	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBHY08) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .999 BETAT (1) = -8.090

PHI	X/LT .977	1.000
.000	-.1330	-.1080
90.000	-.2450	
180.000	-.2500	

MACH (1) = .998 BETAT (2) = -6.060

PHI	X/LT .977	1.000
.000	-.1060	-.0880
90.000	-.2030	
180.000	-.2290	

MACH (1) = .996 BETAT (3) = -4.040

PHI	X/LT .977	1.000
.000	-.0920	-.0420
90.000	-.1810	
180.000	-.2180	

MACH (1) = .997 BETAT (4) = -2.010

PHI	X/LT .977	1.000
.000	-.0910	-.0470
90.000	-.1410	
180.000	-.1900	

MACH (1) = .998 BETAT (5) = .020

PHI	X/LT .977	1.000
.000	-.0870	-.0410
90.000	-.1570	
180.000	-.1700	

MACH (1) = .999 BETAT (6) = 2.050

PHI	X/LT .977	1.000
.000	-.0750	-.0660
90.000	-.1190	
180.000	-.1630	

MACH (1) = .998 BETAT (7) = 4.080

PHI	X/LT .977	1.000
.000	-.0820	-.0640
90.000	-.1340	
180.000	-.1940	

DATE 26 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK BASE (RBNY08)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .998 BETAT (8) = 8.110

	X/LT .977	1.000
PHI		
.000	-.0960	-.0900
90.000	-.1500	
180.000	-.2230	

MACH (1) = .999 BETAT (9) = 8.140

	X/LT .977	1.000
PHI		
.000	-.1520	-.1350
90.000	-.1660	
180.000	-.2270	

MACH (2) = .902 BETAT (1) = -8.160

	X/LT .977	1.000
PHI		
.000	-.1680	-.1560
90.000	-.3160	
180.000	-.3010	

MACH (2) = .901 BETAT (2) = -6.130

	X/LT .977	1.000
PHI		
.000	-.1380	-.1200
90.000	-.2560	
180.000	-.2370	

MACH (2) = .899 BETAT (3) = -4.090

	X/LT .977	1.000
PHI		
.000	-.1080	-.1050
90.000	-.2210	
180.000	-.2070	

MACH (2) = .900 BETAT (4) = -2.040

	X/LT .977	1.000
PHI		
.000	-.1070	-.0840
90.000	-.1840	
180.000	-.1800	

MACH (2) = .902 BETAT (5) = 2.070

	X/LT .977	1.000
PHI		
.000	-.1130	-.0950
90.000	-.1810	
180.000	-.2000	

MACH (2) = .903 BETAT (6) = 4.120

	X/LT .977	1.000
PHI		
.000	-.1140	-.1090
90.000	-.1980	
180.000	-.2100	

AMES 11-7X7 1A9 CEA + S3 + T9 EXTERNAL TANK BASE (RBNY00)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = .904 BETAT (7) = 6.180

	X/LT .977	1.000
PHI		
.000	-.1500	-.1400
90.000	-.2190	
180.000	-.2550	

MACH (2) = .901 BETAT (8) = 8.230

	X/LT .977	1.000
PHI		
.000	-.2020	-.1700
90.000	-.2660	
180.000	-.2940	

MACH (3) = 1.099 BETAT (1) = -8.200

	X/LT .977	1.000
PHI		
.000	-.2150	-.1600
90.000	-.2530	
180.000	-.2300	

MACH (3) = 1.100 BETAT (2) = -6.150

	X/LT .977	1.000
PHI		
.000	-.1780	-.1340
90.000	-.2290	
180.000	-.2060	

MACH (3) = 1.100 BETAT (3) = -4.090

	X/LT .977	1.000
PHI		
.000	-.1380	-.1110
90.000	-.2020	
180.000	-.1680	

MACH (3) = 1.099 BETAT (4) = -2.030

	X/LT .977	1.000
PHI		
.000	-.1050	-.0880
90.000	-.1800	
180.000	-.1580	

MACH (3) = 1.100 BETAT (5) = 2.080

	X/LT .977	1.000
PHI		
.000	-.0950	-.0930
90.000	-.1730	
180.000	-.1700	

MACH (3) = 1.097 BETAT (6) = 4.130

	X/LT .977	1.000
PHI		
.000	-.1320	-.1180
90.000	-.1800	
180.000	-.1710	

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMYD8)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (3) = 1.100 BETAT (7) = 6.180

	X/LT .977	1.000
PHI		
.000	-.1710	-.1420
90.000	-.2010	
180.000	-.2160	

MACH (3) = 1.101 BETAT (8) = 8.250

	X/LT .977	1.000
PHI		
.000	-.2020	-.1750
90.000	-.2510	
180.000	-.2480	

MACH (4) = 1.246 BETAT (1) = -8.160

	X/LT .977	1.000
PHI		
.000	-.2090	-.1540
90.000	-.2100	
180.000	-..050	

MACH (4) = 1.250 BETAT (2) = -6.110

	X/LT .977	1.000
PHI		
.000	-.1820	-.1220
90.000	-.1920	
180.000	-.1630	

MACH (4) = 1.249 BETAT (3) = -4.070

	X/LT .977	1.000
PHI		
.000	-.1340	-.1040
90.000	-.1880	
180.000	-.1600	

MACH (4) = 1.248 BETAT (4) = -2.030

	X/LT .977	1.000
PHI		
.000	-.1080	-.1100
90.000	-.1910	
180.000	-.1750	

MACH (4) = 1.248 BETAT (5) = 2.060

	X/LT .977	1.000
PHI		
.000	-.1100	-.1100
90.000	-.1680	
180.000	-.1680	

MACH (4) = 1.248 BETAT (6) = 4.110

	X/LT .977	1.000
PHI		
.000	-.1360	-.1180
90.000	-.1690	
180.000	-.1720	

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK BASE (RBMYD0)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (4) = 1.247 BETAT (7) = 6.150

X/LT	.977	1.000
PHI		
.000	-.1680	-.1240
90.000	-.1650	
180.000	-.1790	

MACH (4) = 1.245 BETAT (8) = 8.200

X/LT	.977	1.000
PHI		
.000	-.2120	-.1610
90.000	-.2210	
180.000	-.2160	

AMES 11-707 IA9 OA + S3 + T9 EXTERNAL TANK BASE (RBNY09) (27 APR 79)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .998 BETAT (1) = -8.080

X/LT	.977	1.000
PHI		
.000	-.1220	-.0610
90.000	-.2530	
180.000	-.2600	

MACH (1) = .997 BETAT (2) = -6.080

X/LT	.977	1.000
PHI		
.000	-.0810	-.0740
90.000	-.2080	
180.000	-.2110	

MACH (1) = .998 BETAT (3) = -4.030

X/LT	.977	1.000
PHI		
.000	-.0750	-.0440
90.000	-.1510	
180.000	-.2030	

MACH (1) = .998 BETAT (4) = -2.010

X/LT	.977	1.000
PHI		
.000	-.0700	-.0360
90.000	-.1070	
180.000	-.1990	

MACH (1) = .998 BETAT (5) = .020

X/LT	.977	1.000
PHI		
.000	-.0700	-.0300
90.000	-.0940	
180.000	-.2000	

MACH (1) = .998 BETAT (6) = 2.030

X/LT	.977	1.000
PHI		
.000	-.0920	-.0260
90.000	-.1110	
180.000	-.1790	

MACH (1) = .997 BETAT (7) = 4.080

X/LT	.977	1.000
PHI		
.000	-.0780	-.0440
90.000	-.1530	
180.000	-.1890	

AMES 11-7D7 IA9 ORA + S3 + T9 EXTERNAL TANK BASE (RBNYD9)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .597 BETAT (8) = 6.120

	X/LT .977	1.000
PHI		
.000	-.0950	-.0790
90.000	-.1620	
180.000	-.2060	

MACH (1) = .598 BETAT (9) = 8.150

	X/LT .977	1.000
PHI		
.000	-.1250	-.0890
90.000	-.1660	
180.000	-.2280	

MACH (2) = .899 BETAT (1) = -8.170

	X/LT .977	1.000
PHI		
.000	-.1440	-.1590
90.000	-.3050	
180.000	-.2920	

MACH (2) = .907 BETAT (2) = -6.120

	X/LT .977	1.000
PHI		
.000	-.1020	-.1070
90.000	-.2450	
180.000	-.2320	

MACH (2) = .901 BETAT (3) = -4.080

	X/LT .977	1.000
PHI		
.000	-.0960	-.1130
90.000	-.2150	
180.000	-.2030	

MACH (2) = .899 BETAT (4) = -2.030

	X/LT .977	1.000
PHI		
.000	-.0980	-.0820
90.000	-.1780	
180.000	-.1870	

MACH (2) = .903 BETAT (5) = 2.070

	X/LT .977	1.000
PHI		
.000	-.0880	-.0780
90.000	-.1770	
180.000	-.1830	

MACH (2) = .901 BETAT (6) = 4.130

	X/LT .977	1.000
PHI		
.000	-.1060	-.1030
90.000	-.1810	
180.000	-.1960	

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AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY09)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = .900 BETAT (7) = 6.180

X/LT	.977	1.000
PHI		
.000	-.1150	-.1260
90.000	-.2000	
180.000	-.2340	

MACH (2) = .900 BETAT (8) = 8.240

X/LT	.977	1.000
PHI		
.000	-.1590	-.1720
90.000	-.2370	
180.000	-.2940	

MACH (3) = 1.103 BETAT (1) = -8.190

X/LT	.977	1.000
PHI		
.000	-.1890	-.1560
90.000	-.2450	
180.000	-.2120	

MACH (3) = 1.100 BETAT (2) = -6.140

X/LT	.977	1.000
PHI		
.000	-.1620	-.1310
90.000	-.2140	
180.000	-.1760	

MACH (3) = 1.103 BETAT (3) = -4.080

X/LT	.977	1.000
PHI		
.000	-.1100	-.0920
90.000	-.1900	
180.000	-.1640	

MACH (3) = 1.103 BETAT (4) = -2.030

X/LT	.977	1.000
PHI		
.000	-.0870	-.0820
90.000	-.1780	
180.000	-.1630	

MACH (3) = 1.103 BETAT (5) = 2.080

X/LT	.977	1.000
PHI		
.000	-.0760	-.0660
90.000	-.1580	
180.000	-.1680	

MACH (3) = 1.103 BETAT (6) = 4.140

X/LT	.977	1.000
PHI		
.000	-.1080	-.1090
90.000	-.1770	
180.000	-.1720	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY09)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (3) = 1.101 BETAT (7) = 6.210

X/LT	.977	1.000
PHI		
.000	-.1530	-.1430
90.000	-.2010	
180.000	-.1990	

MACH (3) = 1.104 BETAT (8) = 8.260

X/LT	.977	1.000
PHI		
.000	-.1950	-.1670
90.000	-.2360	
180.000	-.2200	

MACH (4) = 1.246 BETAT (1) = -8.150

X/LT	.977	1.000
PHI		
.000	-.1810	-.1380
90.000	-.1810	
180.000	-.1770	

MACH (4) = 1.248 BETAT (2) = -6.110

X/LT	.977	1.000
PHI		
.000	-.1540	-.1020
90.000	-.1460	
180.000	-.1440	

MACH (4) = 1.249 BETAT (3) = -4.080

X/LT	.977	1.000
PHI		
.000	-.1350	-.0970
90.000	-.1650	
180.000	-.1290	

MACH (4) = 1.248 BETAT (4) = -2.020

X/LT	.977	1.000
PHI		
.000	-.0960	-.0840
90.000	-.1720	
180.000	-.1510	

MACH (4) = 1.249 BETAT (5) = 2.070

X/LT	.977	1.000
PHI		
.000	-.1060	-.1000
90.000	-.1480	
180.000	-.1660	

MACH (4) = 1.249 BETAT (6) = 4.110

X/LT	.977	1.000
PHI		
.000	-.1290	-.1090
90.000	-.1360	
180.000	-.1480	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RDMY09)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (4) = 1.249 BETAT (7) = 6.170

X/LT	.977	1.000
PHI		
.000	-.1660	-.1210
90.000	-.1690	
180.000	-.1660	

MACH (4) = 1.246 BETAT (8) = 8.210

X/LT	.977	1.000
PHI		
.000	-.2010	-.1520
90.000	-.2000	
180.000	-.1940	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY10) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .900
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .597 BETAT (1) = -8.070

	X/LT .977	1.000
PHI		
.000	-.1190	-.0520
90.000	-.2920	
180.000	-.2680	

MACH (1) = .598 BETAT (2) = -6.030

	X/LT .977	1.000
PHI		
.000	-.0750	-.0480
90.000	-.2250	
180.000	-.2130	

MACH (1) = .597 BETAT (3) = -4.030

	X/LT .977	1.000
PHI		
.000	-.0600	-.0350
90.000	-.1630	
180.000	-.1880	

MACH (1) = .597 BETAT (4) = -2.000

	X/LT .977	1.000
PHI		
.000	-.0610	-.0130
90.000	-.0890	
180.000	-.1850	

MACH (1) = .598 BETAT (5) = .020

	X/LT .977	1.000
PHI		
.000	-.0670	-.0090
90.000	-.0770	
180.000	-.1800	

MACH (1) = .598 BETAT (6) = 2.080

	X/LT .977	1.000
PHI		
.000	-.0750	-.0060
90.000	-.0980	
180.000	-.1560	

MACH (1) = .597 BETAT (7) = 4.090

	X/LT .977	1.000
PHI		
.000	-.0750	-.0270
90.000	-.1230	
180.000	-.1620	

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .998 BETAT (8) = 6.130

X/LT	.977	1.000
PHI		
.000	-.0850	-.0280
90.000	-.1410	
180.000	-.1830	

MACH (1) = .998 BETAT (9) = 8.170

X/LT	.977	1.000
PHI		
.000	-.1040	-.0580
90.000	-.1570	
180.000	-.2420	

MACH (2) = .901 BETAT (1) = -8.160

X/LT	.977	1.000
PHI		
.000	-.1310	-.1530
90.000	-.2810	
180.000	-.2690	

MACH (2) = .900 BETAT (2) = -6.110

X/LT	.977	1.000
PHI		
.000	-.1000	-.1190
90.000	-.2430	
180.000	-.2310	

MACH (2) = .905 BETAT (3) = -4.070

X/LT	.977	1.000
PHI		
.000	-.0690	-.0860
90.000	-.1990	
180.000	-.1800	

MACH (2) = .902 BETAT (4) = -2.030

X/LT	.977	1.000
PHI		
.000	-.0740	-.0850
90.000	-.1750	
180.000	-.1580	

MACH (2) = .902 BETAT (5) = 2.080

X/LT	.977	1.000
PHI		
.000	-.0800	-.0850
90.000	-.1730	
180.000	-.1770	

MACH (2) = .901 BETAT (6) = 4.130

X/LT	.977	1.000
PHI		
.000	-.1030	-.0940
90.000	-.1670	
180.000	-.1970	

AMES 11-7X7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY10)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = .901 BETAT (7) = 6.200

	X/LT .977	1.000
PHI		
.000	-.1170	-.1310
90.000	-.2010	
180.000	-.2430	

MACH (2) = .900 BETAT (8) = 8.260

	X/LT .977	1.000
PHI		
.000	-.1380	-.1600
90.000	-.2210	
180.000	-.2780	

MACH (3) = 1.103 BETAT (1) = -8.180

	X/LT .977	1.000
PHI		
.000	-.1610	-.1410
90.000	-.2390	
180.000	-.2060	

MACH (3) = 1.103 BETAT (2) = -6.130

	X/LT .977	1.000
PHI		
.000	-.1290	-.1160
90.000	-.2210	
180.000	-.2060	

MACH (3) = 1.102 BETAT (3) = -4.080

	X/LT .977	1.000
PHI		
.000	-.0910	-.0790
90.000	-.1890	
180.000	-.1640	

MACH (3) = 1.102 BETAT (4) = -2.020

	X/LT .977	1.000
PHI		
.000	-.0650	-.0690
90.000	-.1610	
180.000	-.1430	

MACH (3) = 1.102 BETAT (5) = 2.060

	X/LT .977	1.000
PHI		
.000	-.0520	-.0730
90.000	-.1460	
180.000	-.1530	

MACH (3) = 1.102 BETAT (6) = 4.140

	X/LT .977	1.000
PHI		
.000	-.0900	-.0940
90.000	-.1790	
180.000	-.1590	

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY10)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (3) = 1.100 BETAT (7) = 6.210

	X/LT .977	1.000
PHI		
.000	-.1270	-.1220
90.000	-.2130	
180.000	-.1980	

MACH (3) = 1.106 BETAT (8) = 8.280

	X/LT .977	1.000
PHI		
.000	-.1610	-.1440
90.000	-.2150	
180.000	-.1890	

MACH (4) = 1.246 BETAT (1) = -8.140

	X/LT .977	1.000
PHI		
.000	-.1590	-.1150
90.000	-.1600	
180.000	-.1640	

MACH (4) = 1.248 BETAT (2) = -6.080

	X/LT .977	1.000
PHI		
.000	-.1400	-.0910
90.000	-.1350	
180.000	-.1350	

MACH (4) = 1.250 BETAT (3) = -4.050

	X/LT .977	1.000
PHI		
.000	-.1200	-.0870
90.000	-.1500	
180.000	-.1150	

MACH (4) = 1.249 BETAT (4) = -2.020

	X/LT .977	1.000
PHI		
.000	-.0790	-.0690
90.000	-.1620	
180.000	-.1450	

MACH (4) = 1.245 BETAT (5) = 2.070

	X/LT .977	1.000
PHI		
.000	-.0660	-.0780
90.000	-.1260	
180.000	-.1490	

MACH (4) = 1.247 BETAT (6) = 4.120

	X/LT .977	1.000
PHI		
.000	-.1050	-.0950
90.000	-.1290	
180.000	-.1310	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 1.-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY1D)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (4) = 1.246 BETAT (7) = 8.180

X/LT	.977	1.000
PHI		
.000	-.1380	-.1030
90.000	-.1500	
180.000	-.1490	

MACH (4) = 1.247 BETAT (8) = 8.220

X/LT	.977	1.000
PHI		
.000	-.1760	-.1260
90.000	-.1690	
180.000	-.1750	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY11) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .599 BETAT (1) = -8.140

PHI	X/LT .977	1.000
.000	-.1120	-.0210
90.000	-.2430	
180.000	-.2320	

MACH (1) = .597 BETAT (2) = -6.030

PHI	X/LT .977	1.000
.000	-.0670	-.0090
90.000	-.2170	
180.000	-.1950	

MACH (1) = .597 BETAT (3) = -4.010

PHI	X/LT .977	1.000
.000	-.0430	-.0090
90.000	-.1660	
180.000	-.1540	

MACH (1) = .599 BETAT (4) = -2.000

PHI	X/LT .977	1.000
.000	-.0510	.0110
90.000	-.1390	
180.000	-.1690	

MACH (1) = .600 BETAT (5) = .020

PHI	X/LT .977	1.000
.000	-.0510	.0120
90.000	-.1200	
180.000	-.1620	

MACH (1) = .598 BETAT (6) = 2.060

PHI	X/LT .977	1.000
.000	-.0630	.0100
90.000	-.0540	
180.000	-.1550	

MACH (1) = .597 BETAT (7) = 3.040

PHI	X/LT .977	1.000
.000	-.0770	.0000
90.000	-.0640	
180.000	-.1420	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY11)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .800 BETAT (8) = 4.100

	X/LT .977	1.000
PHI		
.000	-.0750	.0060
90.000	-.0970	
180.000	-.1620	

MACH (1) = .801 BETAT (9) = 6.150

	X/LT .977	1.000
PHI		
.000	-.0870	-.0120
90.000	-.1290	
180.000	-.1780	

MACH (1) = .800 BETAT (10) = 8.190

	X/LT .977	1.000
PHI		
.000	-.1210	-.0280
90.000	-.1460	
180.000	-.2290	

MACH (2) = .900 BETAT (1) = -8.140

	X/LT .977	1.000
PHI		
.000	-.1390	-.1570
90.000	-.2880	
180.000	-.2610	

MACH (2) = .903 BETAT (2) = -6.090

	X/LT .977	1.000
PHI		
.000	-.0970	-.1170
90.000	-.2450	
180.000	-.2230	

MACH (2) = .903 BETAT (3) = -4.080

	X/LT .977	1.000
PHI		
.000	-.0810	-.0900
90.000	-.2010	
180.000	-.1830	

MACH (2) = .901 BETAT (4) = -2.020

	X/LT .977	1.000
PHI		
.000	-.0780	-.0750
90.000	-.1800	
180.000	-.1670	

MACH (2) = .901 BETAT (5) = 2.080

	X/LT .977	1.000
PHI		
.000	-.0760	-.0690
90.000	-.1600	
180.000	-.1440	

AMES 11-707 IA9 CRA + S3 + T9 EXTERNAL TANK BASE (RBNY11)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = .900 BETAT (6) = 4.190

	X/LT .977	1.000
PHI		
.000	-.0970	-.0920
90.000	-.1740	
180.000	-.1900	

MACH (2) = .902 BETAT (7) = 6.200

	X/LT .977	1.000
PHI		
.000	-.1030	-.1040
90.000	-.1840	
180.000	-.2210	

MACH (2) = .900 BETAT (8) = 8.280

	X/LT .977	1.000
PHI		
.000	-.1480	-.1720
90.000	-.2360	
180.000	-.2730	

MACH (3) = 1.103 BETAT (1) = -8.150

	X/LT .977	1.000
PHI		
.000	-.1520	-.1270
90.000	-.2210	
180.000	-.1960	

MACH (3) = 1.098 BETAT (2) = -6.110

	X/LT .977	1.000
PHI		
.000	-.1070	-.0960
90.000	-.1990	
180.000	-.1780	

MACH (3) = 1.102 BETAT (3) = -4.070

	X/LT .977	1.000
PHI		
.000	-.0950	-.0740
90.000	-.1780	
180.000	-.1560	

MACH (3) = 1.101 BETAT (4) = -2.090

	X/LT .977	1.000
PHI		
.000	-.0520	-.0600
90.000	-.1560	
180.000	-.1370	

MACH (3) = 1.101 BETAT (5) = 2.090

	X/LT .977	1.000
PHI		
.000	-.0490	-.0660
90.000	-.1390	
180.000	-.1410	

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY11)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (3) = 1.103 BETAT (6) = 4.150

	X/LT .977	1.000
PHI		
.000	-.0780	-.0690
90.000	-.1740	
180.000	-.1490	

MACH (3) = 1.100 BETAT (7) = 6.230

	X/LT .977	1.000
PHI		
.000	-.1130	-.1070
90.000	-.1690	
180.000	-.1600	

MACH (3) = 1.100 BETAT (8) = 8.300

	X/LT .977	1.000
PHI		
.000	-.1430	-.1230
90.000	-.2040	
180.000	-.1790	

MACH (4) = 1.245 BETAT (1) = -8.110

	X/LT .977	1.000
PHI		
.000	-.1460	-.1060
90.000	-.1560	
180.000	-.1560	

MACH (4) = 1.249 BETAT (2) = -6.070

	X/LT .977	1.000
PHI		
.000	-.1240	-.0790
90.000	-.1290	
180.000	-.1200	

MACH (4) = 1.249 BETAT (3) = -4.040

	X/LT .977	1.000
PHI		
.000	-.1010	-.0750
90.000	-.1360	
180.000	-.1060	

MACH (4) = 1.248 BETAT (4) = -2.020

	X/LT .977	1.000
PHI		
.000	-.0770	-.0570
90.000	-.1470	
180.000	-.1300	

MACH (4) = 1.246 BETAT (5) = 2.080

	X/LT .977	1.000
PHI		
.000	-.0740	-.0640
90.000	-.1010	
180.000	-.1240	

AMES 11-7?7 IA9 CBA + S3 + T9 EXTERNAL TANK BASE (RBMY11)

SECTION : 1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (4) = 1.247 BETAT (6) = 4.130

X/LT	.977	1.000
PHI		
.000	-.0850	-.0700
90.000	-.0970	
180.000	-.1110	

MACH (4) = 1.248 BETAT (7) = 6.180

X/LT	.977	1.000
PHI		
.000	-.1040	-.0820
90.000	-.1230	
180.000	-.1350	

MACH (4) = 1.247 BETAT (8) = 8.250

X/LT	.977	1.000
PHI		
.000	-.1490	-.1130
90.000	-.1360	
180.000	-.1640	

AMES 11-7X7 IA9 C2A + S3 + T9 EXTERNAL TANK BASE (RBNY12) (27 APR 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.170

PHI	X/LT .977	1.000
.000	-.3280	-.2840
90.000	-.3260	
180.000	-.3050	

MACH (1) = 1.100 BETAT (2) = -4.070

PHI	X/LT .977	1.000
.000	-.3050	-.2420
90.000	-.2690	
180.000	-.2310	

MACH (1) = 1.097 BETAT (3) = .020

PHI	X/LT .977	1.000
.000	-.2990	-.2350
90.000	-.2670	
180.000	-.2400	

MACH (1) = 1.099 BETAT (4) = 4.160

PHI	X/LT .977	1.000
.000	-.3160	-.2510
90.000	-.2590	
180.000	-.2420	

MACH (1) = 1.105 BETAT (5) = 8.300

PHI	X/LT .977	1.000
.000	-.3350	-.2940
90.000	-.3360	
180.000	-.3280	

MACH (2) = 1.250 BETAT (1) = -8.120

PHI	X/LT .977	1.000
.000	-.2920	-.2590
90.000	-.2960	
180.000	-.2590	

MACH (2) = 1.251 BETAT (2) = -4.090

PHI	X/LT .977	1.000
.000	-.2830	-.2290
90.000	-.2560	
180.000	-.2240	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RONY12)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.246 BETAT (3) = .025

X/LT	.977	1.000
PHI		
.000	-.2830	-.2300
90.000	-.2680	
180.000	-.2370	

MACH (2) = 1.245 BETAT (4) = 4.130

X/LT	.977	1.000
PHI		
.000	-.2760	-.2210
90.000	-.2430	
180.000	-.2120	

MACH (2) = 1.247 BETAT (5) = 8.250

X/LT	.977	1.000
PHI		
.000	-.3050	-.2750
90.000	-.3080	
180.000	-.2910	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY13) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0900 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .900
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.102 BETAT (1) = -8.180

	X/LT .977	1.000
PHI		
.000	-.3040	-.2640
90.000	-.3110	
180.000	-.2920	

MACH (1) = 1.098 BETAT (2) = -4.000

	X/LT .977	1.000
PHI		
.000	-.2780	-.2210
90.000	-.2360	
180.000	-.2170	

MACH (1) = 1.101 BETAT (3) = .020

	X/LT .977	1.000
PHI		
.000	-.2900	-.2130
90.000	-.2390	
180.000	-.2270	

MACH (1) = 1.097 BETAT (4) = 4.140

	X/LT .977	1.000
PHI		
.000	-.2880	-.2250
90.000	-.2310	
180.000	-.2230	

MACH (1) = 1.102 BETAT (5) = 8.290

	X/LT .977	1.000
PHI		
.000	-.3030	-.2660
90.000	-.3210	
180.000	-.3090	

MACH (2) = 1.245 BETAT (1) = -8.130

	X/LT .977	1.000
PHI		
.000	-.2520	-.2350
90.000	-.2820	
180.000	-.2460	

MACH (2) = 1.251 BETAT (2) = -4.080

	X/LT .977	1.000
PHI		
.000	-.2360	-.2080
90.000	-.2280	
180.000	-.2070	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY13)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.246 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.2560	-.2060
90.000	-.2380	
180.000	-.2170	

MACH (2) = 1.245 BETAT (4) = 4.120

X/LT	.977	1.000
PHI		
.000	-.2540	-.2060
90.000	-.2320	
180.000	-.2050	

MACH (2) = 1.247 BETAT (5) = 8.230

X/LT	.977	1.000
PHI		
.000	-.2600	-.2470
90.000	-.2940	
180.000	-.2900	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RSNY14) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .900
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.098 BETAT (1) = -0.190

X/LT	.977	1.000
PHI		
.000	-.2630	-.2320
90.000	-.3020	
180.000	-.2620	

MACH (1) = 1.101 BETAT (2) = -4.080

X/LT	.977	1.000
PHI		
.000	-.2560	-.1630
90.000	-.2270	
180.000	-.2040	

MACH (1) = 1.099 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.2440	-.1770
90.000	-.2290	
180.000	-.2210	

MACH (1) = 1.103 BETAT (4) = 4.130

X/LT	.977	1.000
PHI		
.000	-.2490	-.1890
90.000	-.2210	
180.000	-.2160	

MACH (1) = 1.099 BETAT (5) = 8.260

X/LT	.977	1.000
PHI		
.000	-.2660	-.2290
90.000	-.3050	
180.000	-.3080	

MACH (2) = 1.246 BETAT (1) = -0.140

X/LT	.977	1.000
PHI		
.000	-.2730	-.2110
90.000	-.2700	
180.000	-.2290	

MACH (2) = 1.244 BETAT (2) = -4.080

X/LT	.977	1.000
PHI		
.000	-.2250	-.1810
90.000	-.2090	
180.000	-.1910	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBM\14)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.247 BETAT (3) = .020

PHI	X/LT .977	1.000
.000	-.2300	-.1880
90.000	-.2230	
180.000	-.2010	

MACH (2) = 1.245 BETAT (4) = 4.110

PHI	X/LT .977	1.000
.000	-.2260	-.1820
90.000	-.2190	
180.000	-.2120	

MACH (2) = 1.250 BETAT (5) = 8.210

PHI	X/LT .977	1.000
.000	-.2340	-.2370
90.000	-.2900	
180.000	-.2880	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY15) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .000
RUDDER = -3.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.200

X/LT	.977	1.000
PHI		
.000	-.2270	-.2020
90.000	-.2990	
180.000	-.2710	

MACH (1) = 1.101 BETAT (2) = -4.080

X/LT	.977	1.000
PHI		
.000	-.2320	-.1510
90.000	-.2150	
180.000	-.1810	

MACH (1) = 1.103 BETAT (3) = .030

X/LT	.977	1.000
PHI		
.000	-.2000	-.1590
90.000	-.2170	
180.000	-.1890	

MACH (1) = 1.097 BETAT (4) = 4.140

X/LT	.977	1.000
PHI		
.000	-.2000	-.1590
90.000	-.2070	
180.000	-.2160	

MACH (1) = 1.100 BETAT (5) = 8.250

X/LT	.977	1.000
PHI		
.000	-.2200	-.2100
90.000	-.2820	
180.000	-.2890	

MACH (2) = 1.245 BETAT (1) = -8.150

X/LT	.977	1.000
PHI		
.000	-.2510	-.1940
90.000	-.2550	
180.000	-.2120	

MACH (2) = 1.249 BETAT (2) = -4.070

X/LT	.977	1.000
PHI		
.000	-.2310	-.1520
90.000	-.2140	
180.000	-.1780	

DATE 26 SEP 75 TABULATED PRESSURE DATA - IA9A (RBNY15)

AMES 11-7D7 IA9 O2A + S3 + T9 EXTERNAL TANK BASE

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.247 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.1920	-.1800
90.000	-.2110	
180.000	-.1910	

MACH (2) = 1.247 BETAT (4) = 4.110

X/LT	.977	1.000
PHI		
.000	-.1690	-.1570
90.000	-.2060	
180.000	-.2070	

MACH (2) = 1.248 BETAT (5) = 8.200

X/LT	.977	1.000
PHI		
.000	-.2220	-.2080
90.000	-.2600	
180.000	-.2630	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-7G7 IA9 O2A + S3 + T9 EXTERNAL TANK BASE (RUN116) (27 APR 79)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.210

PHI	X/LT .977	1.000
.000	-.2370	-.1670
90.000	-.2660	
180.000	-.2480	

MACH (1) = 1.098 BETAT (2) = -4.090

PHI	X/LT .977	1.000
.000	-.2080	-.1340
90.000	-.2010	
180.000	-.1580	

MACH (1) = 1.100 BETAT (3) = .020

PHI	X/LT .977	1.000
.000	-.1790	-.1350
90.000	-.1970	
180.000	-.1780	

MACH (1) = 1.100 BETAT (4) = 4.130

PHI	X/LT .977	1.000
.000	-.1590	-.1330
90.000	-.1940	
180.000	-.2040	

MACH (1) = 1.099 BETAT (5) = 8.250

PHI	X/LT .977	1.000
.000	-.2100	-.1910
90.000	-.2630	
180.000	-.2820	

MACH (2) = 1.247 BETAT (1) = -8.150

PHI	X/LT .977	1.000
.000	-.2410	-.1720
90.000	-.2390	
180.000	-.2020	

MACH (2) = 1.249 BETAT (2) = -4.070

PHI	X/LT .977	1.000
.000	-.2080	-.1400
90.000	-.2010	
180.000	-.1640	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY16)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.247 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.1770	-.1420
90.000	-.2010	
180.000	-.1790	

MACH (2) = 1.244 BETAT (4) = 4.110

X/LT	.977	1.000
PHI		
.000	-.1640	-.1350
90.000	-.1870	
180.000	-.2000	

MACH (2) = 1.244 BETAT (5) = 8.200

X/LT	.977	1.000
PHI		
.000	-.2200	-.1850
90.000	-.2520	
180.000	-.2560	

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBHY11) (27 APR 73)

REFERENCE DATA

SREF =	2.4219 SQ.FT.	XMRP =	28.5300 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHAT =	2.000	ORBINC =	.500
RUDDER =	-5.000	ELEVON =	.000
RUDFLR =	.000		

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.102 BETAT (1) = -8.200

X/LT	.977	1.000
PHI		
.000	-.2150	-.1540
90.000	-.2500	
180.000	-.2260	

MACH (1) = 1.098 BETAT (2) = -4.090

X/LT	.977	1.000
PHI		
.000	-.1360	-.1140
90.000	-.1970	
180.000	-.1620	

MACH (1) = 1.102 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.1170	-.0920
90.000	-.1720	
180.000	-.1500	

MACH (1) = 1.100 BETAT (4) = 4.130

X/LT	.977	1.000
PHI		
.000	-.1350	-.1210
90.000	-.1600	
180.000	-.1910	

MACH (1) = 1.099 BETAT (5) = 8.250

X/LT	.977	1.000
PHI		
.000	-.2120	-.1730
90.000	-.2450	
180.000	-.2500	

MACH (2) = 1.244 BETAT (1) = -8.150

X/LT	.977	1.000
PHI		
.000	-.2120	-.1560
90.000	-.2100	
180.000	-.1850	

MACH (2) = 1.251 BETAT (2) = -4.080

X/LT	.977	1.000
PHI		
.000	-.1450	-.1170
90.000	-.1940	
180.000	-.1540	

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY17)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.248 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.1340	-.1180
90.000	-.1660	
180.000	-.1640	

MACH (2) = 1.244 BETAT (4) = 4.100

X/LT	.977	1.000
PHI		
.000	-.1390	-.1120
90.000	-.1700	
180.000	-.1740	

MACH (2) = 1.245 BETAT (5) = 8.200

X/LT	.977	1.000
PHI		
.000	-.2230	-.1710
90.000	-.2240	
180.000	-.2190	

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY10) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.200

	X/LT .977	1.000
PHI		
.000	-.1880	-.1670
90.000	-.2470	
180.000	-.2120	

MACH (1) = 1.099 BETAT (2) = -4.080

	X/LT .977	1.000
PHI		
.000	-.1160	-.0930
90.000	-.1990	
180.000	-.1750	

MACH (1) = 1.098 BETAT (3) = .020

	X/LT .977	1.000
PHI		
.000	-.0870	-.0680
90.000	-.1530	
180.000	-.1250	

MACH (1) = 1.100 BETAT (4) = 4.130

	X/LT .977	1.000
PHI		
.000	-.1230	-.1190
90.000	-.1720	
180.000	-.1860	

MACH (1) = 1.099 BETAT (5) = 8.260

	X/LT .977	1.000
PHI		
.000	-.2020	-.1660
90.000	-.2340	
180.000	-.2280	

MACH (2) = 1.244 BETAT (1) = -8.140

	X/LT .977	1.000
PHI		
.000	-.1910	-.1420
90.000	-.1850	
180.000	-.1840	

MACH (2) = 1.244 BETAT (2) = -4.080

	X/LT .977	1.000
PHI		
.000	-.1340	-.0980
90.000	-.1660	
180.000	-.1230	

AMES 11-707 1A9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY10)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.247 BETAT (3) = .020

	X/LT .077	1.000
PHI		
.000	-.0950	-.0890
90.000	-.1580	
180.000	-.1420	

MACH (2) = 1.249 BETAT (4) = 4.120

	X/LT .977	1.000
PHI		
.000	-.1350	-.1070
90.000	-.1390	
180.000	-.1540	

MACH (2) = 1.245 BETAT (5) = 8.210

	X/LT .977	1.000
PHI		
.000	-.2160	-.1620
90.000	-.2100	
180.000	-.2060	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNV19) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.180

X/LT	.977	1.000
PHI		
.000	-.1690	-.1400
90.000	-.2300	
180.000	-.2010	

MACH (1) = 1.098 BETAT (2) = -4.080

X/LT	.977	1.000
PHI		
.000	-.0790	-.0600
90.000	-.1660	
180.000	-.1660	

MACH (1) = 1.101 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.0550	-.0660
90.000	-.1420	
180.000	-.1110	

MACH (1) = 1.103 BETAT (4) = 4.150

X/LT	.977	1.000
PHI		
.000	-.0970	-.0960
90.000	-.1680	
180.000	-.1680	

MACH (1) = 1.100 BETAT (5) = 8.280

X/LT	.977	1.000
PHI		
.000	-.1720	-.1570
90.000	-.2320	
180.000	-.2160	

MACH (2) = 1.248 BETAT (1) = -8.120

X/LT	.977	1.000
PHI		
.000	-.1720	-.1230
90.000	-.1620	
180.000	-.1720	

MACH (2) = 1.250 BETAT (2) = -4.050

X/LT	.977	1.000
PHI		
.000	-.1260	-.0900
90.000	-.1510	
180.000	-.1180	

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY19)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.247 BETAT (3) = .010

X/LT	.977	1.000
PHI		
.000	-.0670	-.0780
90.000	-.1360	
180.000	-.1170	

MACH (2) = 1.245 BETAT (4) = 4.120

X/LT	.977	1.000
PHI		
.000	-.0970	-.0690
90.000	-.1160	
180.000	-.1390	

MACH (2) = 1.244 BETAT (5) = 8.230

X/LT	.977	1.000
PHI		
.000	-.1780	-.1420
90.000	-.1810	
180.000	-.1910	

AMES 11-7DT IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY20) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.160

X/LT	.977	1.000
PHI		
.000	-.1620	-.1160
90.000	-.2220	
180.000	-.1860	

MACH (1) = 1.101 BETAT (2) = -4.070

X/LT	.977	1.000
PHI		
.000	-.0780	-.0720
90.000	-.1690	
180.000	-.1480	

MACH (1) = 1.099 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.0320	-.0560
90.000	-.1330	
180.000	-.1040	

MACH (1) = 1.100 BETAT (4) = 4.160

X/LT	.977	1.000
PHI		
.000	-.0810	-.0810
90.000	-.1570	
180.000	-.1630	

MACH (1) = 1.099 BETAT (5) = 8.300

X/LT	.977	1.000
PHI		
.000	-.1540	-.1310
90.000	-.1970	
180.000	-.1990	

MACH (2) = 1.246 BETAT (1) = -8.110

X/LT	.977	1.000
PHI		
.000	-.1530	-.1110
90.000	-.1570	
180.000	-.1610	

MACH (2) = 1.248 BETAT (2) = -4.040

X/LT	.977	1.000
PHI		
.000	-.1040	-.0790
90.000	-.1400	
180.000	-.1080	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBHY20)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.245 BETAT (3) = .010

X/LT	.977	1.000
PHI		
.000	-.0470	-.0740
90.000	-.1230	
180.000	-.1050	

MACH (2) = 1.245 BETAT (4) = 4.130

X/LT	.977	1.000
PHI		
.000	-.1010	-.0770
90.000	-.0980	
180.000	-.1240	

MACH (2) = 1.245 BETAT (5) = 7.210

X/LT	.977	1.000
PHI		
.000	-.1380	-.1110
90.000	-.1310	
180.000	-.1710	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY21) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .900
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (1) = -8.170

PHI	X/LT .977	1.000
.000	-.3290	-.2870
90.000	-.3260	
180.000	-.3050	

MACH (1) = 1.104 BETAT (2) = -4.080

PHI	X/LT .977	1.000
.000	-.3080	-.2430
90.000	-.2680	
180.000	-.2330	

MACH (1) = 1.099 BETAT (3) = .020

PHI	X/LT .977	1.000
.000	-.3110	-.2480
90.000	-.2620	
180.000	-.2600	

MACH (1) = 1.101 BETAT (4) = 4.150

PHI	X/LT .977	1.000
.000	-.3150	-.2530
90.000	-.2770	
180.000	-.2420	

MACH (1) = 1.100 BETAT (5) = 8.300

PHI	X/LT .977	1.000
.000	-.3330	-.2900
90.000	-.3310	
180.000	-.3100	

MACH (2) = 1.249 BETAT (1) = -8.120

PHI	X/LT .977	1.000
.000	-.2830	-.2490
90.000	-.2910	
180.000	-.2490	

MACH (2) = 1.252 BETAT (2) = -4.050

PHI	X/LT .977	1.000
.000	-.2840	-.2280
90.000	-.2530	
180.000	-.2230	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RUNYE1)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.230 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.2840	-.2270
90.000	-.2690	
180.000	-.2350	

MACH (2) = 1.246 BETAT (4) = 4.130

X/LT	.977	1.000
PHI		
.000	-.2770	-.2210
90.000	-.2440	
180.000	-.2120	

MACH (2) = 1.247 BETAT (5) = 8.260

X/LT	.977	1.000
PHI		
.000	-.2950	-.2650
90.000	-.3020	
180.000	-.2680	

AMES 11-707 IA9 ORA + S3 + T9 EXTERNAL TANK BASE (RBNY22) (27 APR 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	28.5300 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHAT =	-8.000	ORBINC =	.500
RUDDER =	-10.000	ELEVON =	.000
RUDFLR =	.000		

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.190

X/LT	.977	1.000
PHI		
.000	-.2920	-.2550
90.000	-.3010	
180.000	-.2860	

MACH (1) = 1.097 BETAT (2) = -4.080

X/LT	.977	1.000
PHI		
.000	-.2800	-.2190
90.000	-.2350	
180.000	-.2200	

MACH (1) = 1.098 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.2880	-.2040
90.000	-.2350	
180.000	-.2180	

MACH (1) = 1.100 BETAT (4) = 4.140

X/LT	.977	1.000
PHI		
.000	-.2830	-.2180
90.000	-.2350	
180.000	-.2170	

MACH (1) = 1.099 BETAT (5) = 8.280

X/LT	.977	1.000
PHI		
.000	-.3020	-.2620
90.000	-.3170	
180.000	-.29[illegible]	

MACH (2) = 1.247 BETAT (1) = -8.140

X/LT	.977	1.000
PHI		
.000	-.2490	-.2350
90.000	-.2800	
180.000	-.2420	

MACH (2) = 1.247 BETAT (2) = -4.080

X/LT	.977	1.000
PHI		
.000	-.2500	-.2060
90.000	-.2230	
180.000	-.2060	

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AMES 11-707 IA9 OPA + S3 + T9 EXTERNAL TANK BASE (RBNY22)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.290 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.2540	-.2040
90.000	-.2410	
180.000	-.2200	

MACH (2) = 1.250 BETAT (4) = 4.120

X/LT	.977	1.000
PHI		
.000	-.2520	-.2060
90.000	-.2290	
180.000	-.2030	

MACH (2) = 1.249 BETAT (5) = 8.250

X/LT	.977	1.000
PHI		
.000	-.2740	-.2420
90.000	-.2690	
180.000	-.2810	

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AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBHY23) (27 AP. 3)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.3350 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .900
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.019 BETAT (1) = -8.200

	X/LT .977	1.000
PHI		
.000	-.2620	-.2310
90.000	-.3010	
180.000	-.2750	

MACH (1) = 1.097 BETAT (2) = -4.090

	X/LT .977	1.000
PHI		
.000	-.2560	-.1790
90.000	-.2250	
180.000	-.2010	

MACH (1) = 1.101 BETAT (3) = .020

	X/LT .977	1.000
PHI		
.000	-.2260	-.1790
90.000	-.2350	
180.000	-.2220	

MACH (1) = 1.102 BETAT (4) = 4.140

	X/LT .977	1.000
PHI		
.000	-.2400	-.1920
90.000	-.2250	
180.000	-.2110	

MACH (1) = 1.098 BETAT (5) = 8.200

	X/LT .977	1.000
PHI		
.000	-.2680	-.2300
90.000	-.3040	
180.000	-.2990	

MACH (2) = 1.248 BETAT (1) = -8.150

	X/LT .977	1.000
PHI		
.000	-.2520	-.2090
90.000	-.2670	
180.000	-.2260	

MACH (2) = 1.249 BETAT (2) = -4.080

	X/LT .977	1.000
PHI		
.000	-.2250	-.1860
90.000	-.2140	
180.000	-.2010	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY23)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.248 BETAT (3) = .010

	X/LT	.977	1.000
PHI			
	.000	-.2420	-.1910
	90.000	-.2210	
	180.000	-.1990	

MACH (2) = 1.247 BETAT (4) = 4.120

	X/LT	.977	1.000
PHI			
	.000	-.2240	-.1820
	90.000	-.2150	
	180.000	-.1950	

MACH (2) = 1.248 BETAT (5) = 8.210

	X/LT	.977	1.000
PHI			
	.000	-.2510	-.2230
	90.000	-.2760	
	180.000	-.2790	

AMES 11-7OT IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNYB4) (27 APR 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (1) = -8.200

	X/LT .977	1.000
PHI		
.000	-.2240	-.1980
90.000	-.3000	
180.000	-.2760	

MACH (1) = 1.098 BETAT (2) = -4.090

	X/LT .977	1.000
PHI		
.000	-.2320	-.1550
90.000	-.2160	
180.000	-.1880	

MACH (1) = 1.098 BETAT (3) = .030

	X/LT .977	1.000
PHI		
.000	-.1620	-.1540
90.000	-.2250	
180.000	-.1950	

MACH (1) = 1.097 BETAT (4) = 4.130

	X/LT .977	1.000
PHI		
.000	-.1640	-.1520
90.000	-.2000	
180.000	-.1940	

MACH (1) = 1.101 BETAT (5) = 8.250

	X/LT .977	1.000
PHI		
.000	-.2280	-.2110
90.000	-.2810	
180.000	-.2960	

MACH (2) = 1.246 BETAT (1) = -8.150

	X/LT .977	1.000
PHI		
.000	-.2440	-.1860
90.000	-.2500	
180.000	-.2040	

MACH (2) = 1.249 BETAT (2) = -4.070

	X/LT .977	1.000
PHI		
.000	-.2310	-.1520
90.000	-.2080	
180.000	-.1810	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY24)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.249 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.1940	-.1640
90.000	-.2170	
180.000	-.1920	

MACH (2) = 1.249 BETAT (4) = 4.110

X/LT	.977	1.000
PHI		
.000	-.1820	-.1540
90.000	-.2030	
180.000	-.1950	

MACH (2) = 1.248 BETAT (5) = 8.200

X/LT	.977	1.000
PHI		
.000	-.2130	-.2020
90.000	-.2550	
180.000	-.2650	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY25) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.098 BETAT (1) = -8.200

	X/LT .977	1.000
PHI		
.000	-.2340	-.1600
90.000	-.2590	
180.000	-.2400	

MACH (1) = 1.095 BETAT (2) = -4.050

	X/LT .977	1.000
PHI		
.000	-.1830	-.1350
90.000	-.2100	
180.000	-.1660	

MACH (1) = 1.099 BETAT (3) = .020

	X/LT .977	1.000
PHI		
.000	-.1670	-.1360
90.000	-.1970	
180.000	-.1770	

MACH (1) = 1.100 BETAT (4) = 4.130

	X/LT .977	1.000
PHI		
.000	-.1530	-.1350
90.000	-.1970	
180.000	-.1900	

MACH (1) = 1.096 BETAT (5) = 8.260

	X/LT .977	1.000
PHI		
.000	-.2120	-.2010
90.000	-.2630	
180.000	-.2790	

MACH (2) = 1.246 BETAT (1) = -8.160

	X/LT .977	1.000
PHI		
.000	-.2410	-.1670
90.000	-.2400	
180.000	-.1970	

MACH (2) = 1.246 BETAT (2) = -4.070

	X/LT .977	1.000
PHI		
.000	-.2020	-.1300
90.000	-.1950	
180.000	-.1570	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (REMY23)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.249 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.1720	-.1440
90.000	-.2020	
180.000	-.1780	

MACH (2) = 1.251 BETAT (4) = 4.110

X/LT	.977	1.000
PHI		
.000	-.1750	-.1370
90.000	-.1860	
180.000	-.1630	

MACH (2) = 1.248 BETAT (5) = 8.200

X/LT	.977	1.000
PHI		
.000	-.2070	-.1780
90.000	-.2400	
180.000	-.2480	

AMES 11-7D7 IA9 CEA + S3 + T9 EXTERNAL TANK BASE (RUNV26) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0900 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (1) = -8.210

X/LT	.977	1.000
PHI		
.000	-.2170	-.1560
90.000	-.2570	
180.000	-.2350	

MACH (1) = 1.099 BETAT (2) = -4.090

X/LT	.977	1.000
PHI		
.000	-.1440	-.1060
90.000	-.1980	
180.000	-.1620	

MACH (1) = 1.100 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.1160	-.0820
90.000	-.1690	
180.000	-.1510	

MACH (1) = 1.101 BETAT (4) = 4.130

X/LT	.977	1.000
PHI		
.000	-.1350	-.1230
90.000	-.1740	
180.000	-.1740	

MACH (1) = 1.099 BETAT (5) = 8.260

X/LT	.977	1.000
PHI		
.000	-.2100	-.1710
90.000	-.2460	
180.000	-.2560	

MACH (2) = 1.247 BETAT (1) = -8.160

X/LT	.977	1.000
PHI		
.000	-.2170	-.1580
90.000	-.2160	
180.000	-.1850	

MACH (2) = 1.250 BETAT (2) = -4.070

X/LT	.977	1.000
PHI		
.000	-.1430	-.1150
90.000	-.1930	
180.000	-.1650	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY26)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.248 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.1300	-.1110
90.000	-.1600	
180.000	-.1600	

MACH (2) = 1.246 BETAT (4) = 4.100

X/LT	.977	1.000
PHI		
.000	-.1450	-.1210
90.000	-.1710	
180.000	-.1740	

MACH (2) = 1.247 BETAT (5) = 8.200

X/LT	.977	1.000
PHI		
.000	-.2190	-.1670
90.000	-.2270	
180.000	-.2250	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY27) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.097 BETAT (1) = -8.200

	X/LT .977	1.000
PHI		
.000	-.1960	-.1620
90.000	-.2500	
180.000	-.2170	

MACH (1) = 1.099 BETAT (2) = -4.090

	X/LT .977	1.000
PHI		
.000	-.1310	-.0920
90.000	-.1990	
180.000	-.1710	

MACH (1) = 1.100 BETAT (3) = .020

	X/LT .977	1.000
PHI		
.000	-.0680	-.0710
90.000	-.1530	
180.000	-.1320	

MACH (1) = 1.099 BETAT (4) = 4.140

	X/LT .977	1.000
PHI		
.000	-.1140	-.1140
90.000	-.1720	
180.000	-.1740	

MACH (1) = 1.101 BETAT (5) = 8.260

	X/LT .977	1.000
PHI		
.000	-.1940	-.1680
90.000	-.2410	
180.000	-.2230	

MACH (2) = 1.249 BETAT (1) = -8.130

	X/LT .977	1.000
PHI		
.000	-.1930	-.1440
90.000	-.1860	
180.000	-.1830	

MACH (2) = 1.247 BETAT (2) = -4.080

	X/LT .977	1.000
PHI		
.000	-.1370	-.0970
90.000	-.1640	
180.000	-.1350	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY27)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.249 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.0950	-.0930
90.000	-.1600	
180.000	-.1450	

MACH (2) = 1.251 BETAT (4) = 4.110

X/LT	.977	1.000
PHI		
.000	-.1350	-.1060
90.000	-.1360	
180.000	-.1440	

MACH (2) = 1.248 BETAT (5) = 8.210

X/LT	.977	1.000
PHI		
.000	-.2090	-.1990
90.000	-.2020	
180.000	-.2000	

AMES 11-7ft IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RUNY28) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (1) = -8.190

PHI	X/LT .977	1.000
.000	-.1590	-.1430
90.000	-.2390	
180.000	-.2080	

MACH (1) = 1.098 BETAT (2) = -4.080

PHI	X/LT .977	1.000
.000	-.0750	-.0750
90.000	-.1690	
180.000	-.1670	

MACH (1) = 1.099 BETAT (3) = .020

PHI	X/LT .977	1.000
.000	-.0540	-.0660
90.000	-.1410	
180.000	-.1150	

MACH (1) = 1.102 BETAT (4) = 4.150

PHI	X/LT .977	1.000
.000	-.0930	-.1010
90.000	-.1720	
180.000	-.1630	

MACH (1) = 1.099 BETAT (5) = 8.280

PHI	X/LT .977	1.000
.000	-.1740	-.1550
90.000	-.2270	
180.000	-.2140	

MACH (2) = 1.248 BETAT (1) = -8.130

PHI	X/LT .97?	1.000
.000	-.1650	-.1230
90.000	-.1690	
180.000	-.1740	

MACH (2) = 1.251 BETAT (2) = -4.080

PHI	X/LT .977	1.000
.000	-.1250	-.0930
90.000	-.1490	
180.000	-.1200	

AMES 11-70T IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RUN129)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.249 BETAT (3) = .010

X/LT	.977	1.000
PHI		
.000	-.0610	-.0600
90.000	-.1410	
180.000	-.1190	

MACH (2) = 1.245 BETAT (4) = 4.120

X/LT	.977	1.000
PHI		
.000	-.1150	-.0920
90.000	-.1200	
180.000	-.1380	

MACH (2) = 1.245 BETAT (5) = 8.230

X/LT	.977	1.000
PHI		
.000	-.1780	-.1320
90.000	-.1760	
180.000	-.1920	

AMES 11-7?7 IA9 ORA + S3 + T9 EXTERNAL TANK BASE (RDNY29) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .300
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.098 BETAT (1) = -8.160

X/LT	.977	1.000
PHI		
.000	-.1670	-.1220
90.000	-.2230	
180.000	-.1860	

MACH (1) = 1.098 BETAT (2) = -4.070

X/LT	.977	1.000
PHI		
.000	-.0650	-.0790
90.000	-.1750	
180.000	-.1670	

MACH (1) = 1.098 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.0330	-.0560
90.000	-.1320	
180.000	-.1000	

MACH (1) = 1.098 BETAT (4) = 4.150

X/LT	.977	1.000
PHI		
.000	-.0730	-.0770
90.000	-.1490	
180.000	-.1490	

MACH (1) = 1.098 BETAT (5) = 8.310

X/LT	.977	1.000
PHI		
.000	-.1450	-.1300
90.000	-.2100	
180.000	-.1960	

MACH (2) = 1.247 BETAT (1) = -8.100

X/LT	.977	1.000
PHI		
.000	-.1490	-.1040
90.000	-.1660	
180.000	-.1610	

MACH (2) = 1.249 BETAT (2) = -4.040

X/LT	.977	1.000
PHI		
.000	-.1050	-.0720
90.000	-.1390	
180.000	-.1040	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY29)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.249 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.0490	-.0730
90.000	-.1240	
180.000	-.1040	

MACH (2) = 1.249 BETAT (4) = 4.130

X/LT	.977	1.000
PHI		
.000	-.1060	-.0810
90.000	-.1050	
180.000	-.1220	

MACH (2) = 1.246 BETAT (5) = 8.250

X/LT	.977	1.000
PHI		
.000	-.1510	-.1210
90.000	-.1430	
180.000	-.1750	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-FT IA9 OPA + S3 + T9 EXTERNAL TANK BASE (RBNY30) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .900
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.180

PHI	X/LT .977	X/LT 1.000
.000	-.3270	-.2820
90.000	-.3230	
180.000	-.3000	

MACH (1) = 1.102 BETAT (2) = -4.080

PHI	X/LT .977	X/LT 1.000
.000	-.3070	-.2420
90.000	-.2650	
180.000	-.2300	

MACH (1) = 1.102 BETAT (3) = .020

PHI	X/LT .977	X/LT 1.000
.000	-.3050	-.2440
90.000	-.2800	
180.000	-.2560	

MACH (1) = 1.100 BETAT (4) = 4.160

PHI	X/LT .977	X/LT 1.000
.000	-.3160	-.2560
90.000	-.2590	
180.000	-.2420	

MACH (1) = 1.102 BETAT (5) = 8.310

PHI	X/LT .977	X/LT 1.000
.000	-.3350	-.2930
90.000	-.3350	
180.000	-.3140	

MACH (2) = 1.244 BETAT (1) = -8.130

PHI	X/LT .977	X/LT 1.000
.000	-.2870	-.2570
90.000	-.2920	
180.000	-.2530	

MACH (2) = 1.245 BETAT (2) = -4.050

PHI	X/LT .977	X/LT 1.000
.000	-.2810	-.2250
90.000	-.2500	
180.000	-.2180	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY30)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.249 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.2840	-.2240
90.000	-.2770	
180.000	-.2270	

MACH (2) = 1.245 BETAT (4) = 4.130

X/LT	.977	1.000
PHI		
.000	-.2620	-.2260
90.000	-.2400	
180.000	-.2210	

MACH (2) = 1.247 BETAT (5) = 8.250

X/LT	.977	1.000
PHI		
.000	-.3030	-.2700
90.000	-.3060	
180.000	-.2880	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY31) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.190

	X/LT .977	1.000
PHI		
.000	-.2940	-.2560
90.000	-.3030	
180.000	-.2830	

MACH (1) = 1.101 BETAT (2) = -4.090

	X/LT .977	1.000
PHI		
.000	-.2830	-.2190
90.000	-.2950	
180.000	-.2190	

MACH (1) = 1.099 BETAT (3) = .020

	X/LT .977	1.000
PHI		
.000	-.2840	-.2060
90.000	-.2370	
180.000	-.2280	

MACH (1) = 1.098 BETAT (4) = 4.140

	X/LT .977	1.000
PHI		
.000	-.2890	-.2240
90.000	-.2240	
180.000	-.2130	

MACH (1) = 1.097 BETAT (5) = 8.280

	X/LT .977	1.000
PHI		
.000	-.3020	-.2590
90.000	-.3140	
180.000	-.2940	

MACH (2) = 1.247 BETAT (1) = -8.140

	X/LT .977	1.000
PHI		
.000	-.2510	-.2350
90.000	-.2820	
180.000	-.2450	

MACH (2) = 1.248 BETAT (2) = -4.080

	X/LT .977	1.000
PHI		
.000	-.2580	-.2060
90.000	-.2290	
180.000	-.2060	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RUNY31)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.251 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.2530	-.2040
90.000	-.2450	
180.000	-.2080	

MACH (2) = 1.251 BETAT (4) = 4.120

X/LT	.977	1.000
PHI		
.000	-.2600	-.2120
90.000	-.2330	
180.000	-.2140	

MACH (2) = 1.250 BETAT (5) = 8.230

X/LT	.977	1.000
PHI		
.000	-.2810	-.2480
90.000	-.2960	
180.000	-.2980	

AMES 11-707 IA9 OPA + S3 + T9 EXTERNAL TANK BASE (RBMY32) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (1) = -8.200

X/LT	.977	1.000
PHI		
.000	-.2620	-.2350
90.000	-.3020	
180.000	-.2760	

MACH (1) = 1.098 BETAT (2) = -4.090

X/LT	.977	1.000
PHI		
.000	-.2600	-.1810
90.000	-.2260	
180.000	-.1970	

MACH (1) = 1.100 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.2360	-.1770
90.000	-.2390	
180.000	-.2230	

MACH (1) = 1.101 BETAT (4) = 4.130

X/LT	.977	1.000
PHI		
.000	-.2490	-.1940
90.000	-.2300	
180.000	-.2120	

MACH (1) = 1.101 BETAT (5) = 8.260

X/LT	.977	1.000
PHI		
.000	-.2730	-.2290
90.000	-.3050	
180.000	-.3020	

MACH (2) = 1.249 BETAT (1) = -8.150

X/LT	.977	1.000
PHI		
.000	-.2550	-.2130
90.000	-.2750	
180.000	-.2290	

MACH (2) = 1.250 BETAT (2) = -4.060

X/LT	.977	1.000
PHI		
.000	-.2240	-.1880
90.000	-.2200	
180.000	-.2020	

AMES 11-7D7 IA9 CEA + S3 + T9 EXTERNAL TANK BASE (RBNY32)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.250 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.2330	-.1880
90.000	-.2240	
180.000	-.2020	

MACH (2) = 1.248 BETAT (4) = 4.110

X/LT	.977	1.000
PHI		
.000	-.2170	-.1820
90.000	-.2120	
180.000	-.2040	

MACH (2) = 1.248 BETAT (5) = 8.210

X/LT	.977	1.000
PHI		
.000	-.2540	-.2260
90.000	-.2860	
180.000	-.2930	

AMES 11-707 IA9 OEA + S3 + T3 EXTERNAL TANK BASE (RBNY33) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.102 BETAT (1) = -8.200

	X/LT .977	1.000
PHI		
.000	-.2180	-.1910
90.000	-.2930	
180.000	-.2730	

MACH (1) = 1.101 BETAT (2) = -4.090

	X/LT .977	1.000
PHI		
.000	-.2190	-.1490
90.000	-.2160	
180.000	-.1820	

MACH (1) = 1.100 BETAT (3) = .080

	X/LT .977	1.000
PHI		
.000	-.1790	-.1510
90.000	-.2230	
180.000	-.1980	

MACH (1) = 1.101 BETAT (4) = 4.130

	X/LT .977	1.000
PHI		
.000	-.1850	-.1580
90.000	-.2060	
180.000	-.1990	

MACH (1) = 1.099 BETAT (5) = 8.250

	X/LT .977	1.000
PHI		
.000	-.2280	-.2090
90.000	-.2810	
180.000	-.2670	

MACH (2) = 1.247 BETAT (1) = -8.150

	X/LT .977	1.000
PHI		
.000	-.2440	-.1880
90.000	-.2510	
180.000	-.2040	

MACH (2) = 1.246 BETAT (2) = -4.080

	X/LT .977	1.000
PHI		
.000	-.2280	-.1530
90.000	-.2070	
180.000	-.1770	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY33)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.250 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.1940	-.1610
90.000	-.2160	
180.000	-.1900	

MACH (2) = 1.250 BETAT (4) = 4.110

X/LT	.977	1.000
PHI		
.000	-.1890	-.1570
90.000	-.2060	
180.000	-.2110	

MACH (2) = 1.248 BETAT (5) = 8.200

X/LT	.977	1.000
PHI		
.000	-.2170	-.2070
90.000	-.2610	
180.000	-.2720	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY34) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLX = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.097 BETAT (1) = -8.200

	X/LT .977	1.000
PHI		
.000	-.2420	-.1710
90.000	-.2660	
180.000	-.2450	

MACH (1) = 1.100 BETAT (2) = -4.090

	X/LT .977	1.000
PHI		
.000	-.1940	-.1330
90.000	-.2110	
180.000	-.1740	

MACH (1) = 1.099 BETAT (3) = .020

	X/LT .977	1.000
PHI		
.000	-.1650	-.1260
90.000	-.1950	
180.000	-.1710	

MACH (1) = 1.100 BETAT (4) = 4.130

	X/LT .977	1.000
PHI		
.000	-.1590	-.1330
90.000	-.1990	
180.000	-.1850	

MACH (1) = 1.099 BETAT (5) = 8.250

	X/LT .977	1.000
PHI		
.000	-.2160	-.1980
90.000	-.2720	
180.000	-.2850	

MACH (2) = 1.249 BETAT (1) = -8.160

	X/LT .977	1.000
PHI		
.000	-.2440	-.1690
90.000	-.2380	
180.000	-.1970	

MACH (2) = 1.250 BETAT (2) = -4.070

	X/LT .977	1.000
PHI		
.000	-.2110	-.1380
90.000	-.1990	
180.000	-.1650	

AMES 11-7D7 IA9 C2A + S3 + T9 EXTERNAL TANK BASE (RBNY34)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.249 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.1750	-.1430
90.000	-.2040	
180.000	-.1840	

MACH (2) = 1.245 BETAT (4) = 4.110

X/LT	.977	1.000
PHI		
.000	-.1680	-.1360
90.000	-.1840	
180.000	-.1950	

MACH (2) = 1.247 BETAT (5) = 8.200

X/LT	.977	1.000
PHI		
.000	-.2210	-.1880
90.000	-.2510	
180.000	-.2590	

AMES 11-7D7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBMY35) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .300
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.102 BETAT (1) = -8.210

X/LT	.977	1.000
PHI		
.000	-.2150	-.1600
90.000	-.2530	
180.000	-.2330	

MACH (1) = 1.095 BETAT (2) = -4.090

X/LT	.977	1.000
PHI		
.000	-.1470	-.1130
90.000	-.1950	
180.000	-.1640	

MACH (1) = 1.099 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.1280	-.0820
90.000	-.1670	
180.000	-.1460	

MACH (1) = 1.101 BETAT (4) = 4.130

X/LT	.977	1.000
PHI		
.000	-.1330	-.1250
90.000	-.1750	
180.000	-.1630	

MACH (1) = 1.108 BETAT (5) = 8.250

X/LT	.977	1.000
PHI		
.000	-.2070	-.1690
90.000	-.2470	
180.000	-.2590	

MACH (2) = 1.248 BETAT (1) = -8.160

X/LT	.977	1.000
PHI		
.000	-.2180	-.1570
90.000	-.2120	
180.000	-.1870	

MACH (2) = 1.244 BETAT (2) = -4.070

X/LT	.977	1.000
PHI		
.000	-.1340	-.1010
90.000	-.1870	
180.000	-.1600	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RUN 35)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.250 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.1290	-.1070
90.000	-.1630	
180.000	-.1610	

MACH (2) = 1.248 BETAT (4) = 4.100

X/LT	.977	1.000
PHI		
.000	-.1610	-.1220
90.000	-.1700	
180.000	-.1740	

MACH (2) = 1.248 BETAT (5) = 8.200

X/LT	.977	1.000
PHI		
.000	-.2190	-.1740
90.000	-.2270	
180.000	-.2300	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY36) (27 APR 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .900
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.103 BETAT (1) = -8.200

PHI	X/LT .977	1.000
.000	-.1920	-.1590
90.000	-.2480	
180.000	-.2110	

MACH (1) = 1.099 BETAT (2) = -4.090

PHI	X/LT .977	1.000
.000	-.1230	-.0990
90.000	-.1940	
180.000	-.1670	

MACH (1) = 1.098 BETAT (3) = .020

PHI	X/LT .977	1.000
.000	-.0820	-.0670
90.000	-.1510	
180.000	-.1260	

MACH (1) = 1.098 BETAT (4) = 4.140

PHI	X/LT .977	1.000
.000	-.1200	-.1090
90.000	-.1700	
180.000	-.1760	

MACH (1) = 1.100 BETAT (5) = 8.260

PHI	X/LT .977	1.000
.000	-.1070	-.1670
90.000	-.2410	
180.000	-.2200	

MACH (2) = 1.248 BETAT (1) = -8.150

PHI	X/LT .977	1.000
.000	-.1900	-.1440
90.000	-.1840	
180.000	-.1800	

MACH (2) = 1.249 BETAT (2) = -4.060

PHI	X/LT .977	1.000
.000	-.1400	-.1010
90.000	-.1630	
180.000	-.1290	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBW736)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.249 BETAT (3) = .010

	X/LT .977	1.000
PHI		
.000	-.0690	-.0870
90.000	-.1570	
180.000	-.1420	

MACH (2) = 1.245 BETAT (4) = 4.110

	X/LT .977	1.000
PHI		
.000	-.1320	-.1090
90.000	-.1320	
180.000	-.1470	

MACH (2) = 1.246 BETAT (5) = 8.210

	X/LT .977	1.000
PHI		
.000	-.2090	-.1580
90.000	-.2090	
180.000	-.2070	

C-22

AMES 11-7ft IA9 OEA + S9 + T9 EXTERNAL TANK BASE (RBHV3P) (27 APR 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 29.5900 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .900
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (1) = -8.180

	X/LT .977	1.000
PHI		
.000	-.1850	-.1450
90.000	-.2430	
180.000	-.2130	

MACH (1) = 1.100 BETAT (2) = -4.080

	X/LT .977	1.000
PHI		
.000	- .0820	-.0770
90.000	.1850	
[illegible]	-.1680	

MACH (1) = 1.088 BETAT (3) = .010

	. .977	1.000
PHI		
.000	-.0530	-.0850
90.000	-.1440	
180.000	-.1140	

MACH (1) = 1.100 BETAT (4) = 4.140

	X/LT .977	1.000
PHI		
.000	-.0840	-.1000
90.000	-.1790	
180.000	-.1720	

MACH (1) = 1.089 BETAT (5) = 8.280

	X/LT .977	1.000
PHI		
.000	-.1700	-.1500
90.000	-.2330	
180.000	-.2120	

MACH (2) = 1.247 BETAT (1) = -8.130

	X/LT .977	1.000
PHI		
.000	-.1720	-.1290
90.000	-.1630	
180.000	-.1750	

MACH (2) = 1.248 BETAT (2) = -4.090

	X/LT .977	1.000
PHI		
.000	-.1170	-.0840
90.000	-.1453	
180.000	-. [illegible]	

AMES 11-7ft 1A9 OEA + SS + T9 EXTERNAL TANK BASE (RUN 97)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.247 BETAT (3) = .020

	X/LT .977	1.000
PHI		
.000	-.0820	-.0830
90.000	-.1390	
180.000	-.1210	

MACH (2) = 1.252 BETAT (4) = 4.120

	X/LT .977	1.000
PHI		
.000	-.1200	-.0930
90.000	-.1200	
180.000	-.1450	

MACH (2) = 1.247 BETAT (5) = 8.230

	X/LT .977	1.000
PHI		
.000	-.1790	-.1380
90.000	-.1780	
180.000	-.1940	

AMES 11-707 IA9 CEA + S3 + T9 EXTERNAL TANK BASE (RBNY38) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .900
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (1) = -8.170

X/LT	.977	1.000
PHI		
.000	-.1640	-.1270
90.000	-.2250	
180.000	-.1910	

MACH (1) = 1.099 BETAT (2) = -4.070

X/LT	.977	1.000
PHI		
.000	-.0850	-.0880
90.000	-.1730	
180.000	-.1560	

MACH (1) = 1.099 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.0310	-.0540
90.000	-.1330	
180.000	-.1050	

MACH (1) = 1.095 BETAT (4) = 4.180

X/LT	.977	1.000
PHI		
.000	-.0730	-.0820
90.000	-.1580	
180.000	-.1560	

MACH (1) = 1.097 BETAT (5) = 8.310

X/LT	.977	1.000
PHI		
.000	-.1520	-.1380
90.000	-.1910	
180.000	-.1970	

MACH (2) = 1.245 BETAT (1) = -8.110

X/LT	.977	1.000
PHI		
.000	-.1490	-.1040
90.000	-.1590	
180.000	-.1590	

MACH (2) = 1.251 BETAT (2) = -4.040

X/LT	. 7	1.000
PHI		
.000	-.1050	-.0760
90.000	-.1410	
180.000	-.1090	

AMES 11-7D7 IA9 CEA + S3 + T9 EXTERNAL TANK BASE (DBW30)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.248 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.0479	-.0730
90.000	-.1280	
180.000	-.1030	

MACH (2) = 1.245 BETAT (4) = 4.130

X/LT	.977	1.000
PHI		
.000	-.0590	-.0780
90.000	-.0980	
180.000	-.1210	

MACH (2) = 1.245 BETAT (5) = 8.250

X/LT	.977	1.000
PHI		
.000	-.1515	-.1210
90.000	-.1440	
180.000	-.1800	

AMES 11-7ft IA9 CEA • S3 • T9 EXTERNAL TANK BASE (RUN 39) (27 APR 79)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 29.5300 INCHES
LREF = 39.0490 INCHES YMRP = .0000 INCHES
BREF = 39.0490 INCHES ZMRP = .0000 INCHES
SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -9.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.105 BETAT (1) = -8.180

	X/LT .977	1.000
PHI		
.000	-.3280	-.2780
90.000	-.3250	
180.000	-.2980	

MACH (1) = 1.087 BETAT (2) = -4.070

	X/LT .977	1.000
PHI		
.000	-.3000	-.2570
90.000	-.2830	
180.000	-.2270	

MACH (1) = 1.090 BETAT (3) = .020

	X/LT .977	1.000
PHI		
.000	-.3080	-.2570
90.000	-.2860	
180.000	-.2540	

MACH (1) = 1.104 BETAT (4) = 4.180

	X/LT .977	1.000
PHI		
.000	-.3100	-.2450
90.000	-.2820	
180.000	-.2420	

MACH (1) = 1.089 BETAT (5) = 8.310

	X/LT .977	1.000
PHI		
.000	-.3360	-.2820
90.000	-.3380	
180.000	-.3150	

MACH (2) = 1.251 BETAT (1) = -8.120

	X/LT .977	1.000
PHI		
.000	-.2870	-.2560
90.000	-.2980	
180.000	-.2930	

MACH (2) = 1.249 BETAT (2) = -4.050

	X/LT .977	1.000
PHI		
.000	-.2770	-.2250
90.000	-.2510	
180.000	-.21[illegible]	

AMES 11-7ft IA9 CEA + S3 + T9 EXTERNAL TANK BASE (RUN199)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.248 BETAT (3) = .025

	X/LT	.977	1.000
PHI			
	.000	-.2910	-.2340
	90.000	-.2710	
	180.000	-.2400	

MACH (2) = 1.248 BETAT (4) = 4.130

	X/LT	.977	1.000
PHI			
	.000	-.2820	-.2270
	90.000	-.2490	
	180.000	-.2700	

MACH (2) = 1.245 BETAT (5) = 8.250

	X/LT	.977	1.000
PHI			
	.000	-.2970	-.2080
	90.000	-.3080	
	180.000	-.2980	

AMES 11-7?? IA9 CFA + 53 + 79 EXTERNAL TANK BASE (REVISED) (27 APR 79)

REFERENCE DATA

SREF = 7.4210 SQ.FT. XMRP = 29.5300 INCHES
LREF = 99.8490 INCHES YMRP = .0000 INCHES
BREF = 99.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORDINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.190

PHI	X/LT .977	1.000
.000	-.2980	-.2280
90.000	-.2980	
180.000	-.2780	

MACH (1) = 1.101 BETAT (2) = -4.080

PHI	X/LT .977	1.000
.000	-.2550	-.1770
90.000	-.2320	
180.000	-.1960	

MACH (1) = 1.101 BETAT (3) = .080

PHI	X/LT .977	1.000
.000	-.2[illegible]	-.1710
90.000	-.2400	
180.000	-.2320	

MACH (1) = 1.099 BETAT (4) = 4.140

PHI	X/LT .977	1.000
.000	-.2[illegible]90	-.1900
90.000	-.2190	
180.000	-.2090	

MACH (1) = 1.100 BETAT (5) = 8.200

PHI	X/LT .977	1.000
.000	-.2810	-.2210
90.000	-.2950	
180.000	-.2910	

MACH (2) = 1.244 BETAT (1) = -8.190

PHI	X/LT .977	1.000
.000	-.2580	-.2040
90.000	-.2690	
180.000	-.2280	

MACH (2) = 1.245 BETAT (2) = -4.080

PHI	X/LT .977	1.000
.000	-.2220	-.1870
90.000	-.2130	
180.000	-.1990	

AMES 11-75? 1A9 CRA + 53 + T9 EXTERNAL TANK BASE (SB0740)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.240 BETAT (3) = .210

X/LT	.977	1.000
PHI		
.000	-.2330	-.1690
90.000	-.2270	
180.000	-.2050	

MACH (2) = 1.250 BETAT (4) = 4.110

X/LT	.977	1.020
PHI		
.000	-.2290	-.1890
90.000	-.2150	
180.000	-.1980	

MACH (2) = 1.250 BETAT (5) = 9.210

X/LT	.977	1.000
PHI		
.000	-.2330	-.2280
90.000	-.2810	
180.000	-.2720	

AMES 11-7DT IA9 OPA + 33 + 79 EXTERNAL TANK BASE (RUN741) (27 APR 75)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	20.5300 INCHES		
LREF =	39.0490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.0490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHAT =	.000	ORBINC =	.900
RUDDER =	-3.000	ELEVON =	.000
RUDFLR =	.000		

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.1[illegible] BETAT (2) = -0.200

X/LT	.977	1.000
PHI		
.000	-.2310	-.1720
90.000	-.2730	
180.000	-.1910	

MACH (1) = 1.080 BETAT (2) = -4.080

X/LT	.977	1.000
PHI		
.000	-.1930	-.1340
90.000	-.2080	
180.000	-.1840	

MACH (1) = 1.100 BETAT (3) = .080

X/LT	.977	1.000
PHI		
.000	-.1660	-.1300
90.000	-.1870	
180.000	-.1710	

MACH (1) = 1.100 BETAT (4) = 4.130

X/LT	.977	1.000
PHI		
.000	-.1510	-.1410
90.000	-.1980	
180.000	-.1880	

MACH (1) = 1.100 BETAT (5) = 8.290

X/LT	.977	1.000
PHI		
.000	-.2240	-.2020
90.000	-.2690	
180.000	-.2740	

MACH (2) = 1.247 BETAT (1) = -8.160

X/LT	.977	1.000
PHI		
.000	-.2490	-.1890
90.000	-.2390	
180.000	-.1950	

MACH (2) = 1.291 BETAT (2) = -4.080

X/LT	.977	1.000
PHI		
.000	-.2[illegible]	-.1390
90.000	-.2[illegible]	
180.000	-.16[illegible]	

AMES 11-7ft 1A9 CPA + S3 + T9 EXTERNAL TANK BASE (RUN741)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.240 BETAT (3) = .020

	X/LT	.977	1.000
	PHI		
	.000	-.1700	-.1420
	90.000	-.[illegible]	
	180.000	-.1790	

MACH (2) = 1.247 BETAT (4) = 4.110

	X/LT	.977	1.000
	PHI		
	.000	-.1580	-.1330
	90.000	-.1860	
	180.000	-.1850	

MACH (2) = 1.248 BETAT (5) = 8.200

	X/LT	.977	1.000
	PHI		
	.000	-.2020	-.1850
	90.000	-.2400	
	180.000	-.2470	

AMES 11-FOOT IA9 OEA + 33 + 79 EXTERNAL TANK BASE (RUN 42) (27 APR 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	29.5300 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHAT =	4.000	ORDINC =	.900
RUDDER =	-5.000	ELEVON =	.000
RUDFLR =	.000		

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.190

PHI	X/LT .977	1.000
.000	-.1890	-.1820
90.000	-.2490	
180.000	-.2180	

MACH (1) = 1.102 BETAT (2) = -4.080

PHI	X/LT .977	1.000
.000	-.1140	-.0950
90.000	-.2070	
180.000	-.1780	

MACH (1) = 1.098 BETAT (3) = .080

PHI	X/LT .977	1.000
.000	-.0910	-.0890
90.000	-.1800	
180.000	-.1540	

MACH (1) = 1.099 BETAT (4) = 4.140

PHI	X/LT .977	1.000
.000	-.1123	-.1150
90.000	-.1790	
180.000	-.1760	

MACH (1) = 1.100 BETAT (5) = 8.280

PHI	X/LT .977	1.000
.000	-.1890	-.1700
90.000	-.2450	
180.000	-.2210	

MACH (2) = 1.245 BETAT (1) = -8.140

PHI	X/LT .977	1.000
.000	-.1950	-.1390
90.000	-.1860	
180.000	-.1870	

MACH (2) = 1.248 BETAT (2) = -4.080

PHI	X/LT .977	1.000
.000	-.1370	-.0980
90.000	-.1670	
180.000	-.1[illegible]	

AMES 11-707 IA9 OPA + S3 + T9 EXTERNAL TANK BASE (RBNY42)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.249 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.0840	-.0870
90.000	-.1590	
180.000	-.1410	

MACH (2) = 1.247 BETAT (4) = 4.110

X/LT	.977	1.000
PHI		
.000	-.1310	-.1100
90.000	-.1450	
180.000	-.1530	

MACH (2) = 1.248 BETAT (5) = 8.210

X/LT	.977	1.000
PHI		
.000	-.2030	-.1970
90.000	-.2030	
180.000	-.1970	

ANES 11-777 100 GEN + 17 + 79 EXTERNAL TANK BASE (REV43) (27 APR 93)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	BREF =	29.5300 INCHES		
LREF =	30.0440 INCHES	YMRP =	.0000 INCHES		
BREF =	59.8690 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0500 SCALE				

PARAMETRIC DATA

ALPHAT =	8.000	ORBINC =	.900
RUDDER =	-9.000	ELEVON =	.000
RUDFLR =	.000		

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.180

	X/LT .977	1.000
PHI		
.000	-.1470	-.1380
90.000	-.2330	
180.000	-.2010	

MACH (1) = 1.097 BETAT (2) = -4.070

	X/LT .977	1.000
PHI		
.000	-.0710	-.0750
90.000	-.1780	
180.000	-.1640	

MACH (1) = 1.103 BETAT (3) = .060

	X/LT .977	1.000
PHI		
.000	-.0580	-.0580
90.000	-.1330	
180.000	-.1120	

MACH (1) = 1.099 BETAT (4) = 4.150

	X/LT .977	1.000
PHI		
.000	-.0790	-.0870
90.000	-.1690	
180.000	-.1530	

MACH (1) = 1.099 BETAT (5) = 8.300

	X/LT .977	1.000
PHI		
.000	-.1490	-.1340
90.000	-.2200	
180.000	-.1990	

MACH (2) = 1.245 BETAT (1) = -8.110

	X/LT .977	1.000
PHI		
.000	-.1490	-.1080
90.000	-.1590	
180.000	-.1620	

MACH (2) = 1.249 BETAT (2) = -4.060

	X/LT .977	1.000
PHI		
.000	-.1080	-.0780
90.000	-.1410	
180.000	-.1100	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-707 1A9 OBA + S3 + T9 EXTERNAL TANK BASE (RBMY43)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = 1.248 BETAT (3) = .020

X/LT	.977	1.000
PHI		
.000	-.0410	-.0740
90.000	-.1250	
180.000	-.1030	

MACH (2) = 1.245 BETAT (4) = 4.130

X/LT	.977	1.000
PHI		
.000	-.0970	-.0780
90.000	-.1070	
180.000	-.1240	

MACH (2) = 1.248 BETAT (5) = 8.250

X/LT	.977	1.000
PHI		
.000	-.1520	-.1210
90.000	-.1430	
180.000	-.1740	

AMES 11-70T IA9 OPA + S3 + T9 EXTERNAL TANK BASE (RBNY44) (28 APR 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = -1.200
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .600 ALPHAT(1) = -8.050

PHI	X/LT .977	1.000
.000	-.2590	-.0600
90.000	-.2840	
180.000	-.1790	

MACH (1) = .600 ALPHAT(2) = -5.990

PHI	X/LT .977	1.000
.000	-.2350	-.0700
90.000	-.2440	
180.000	-.1820	

MACH (1) = .599 ALPHAT(3) = -3.990

PHI	X/LT .977	1.000
.000	-.2040	-.0719
90.000	-.2140	
180.000	-.1810	

MACH (1) = .599 ALPHAT(4) = -1.970

PHI	X/LT .977	1.000
.000	-.1780	-.0620
90.000	-.2010	
180.000	-.1680	

MACH (1) = .600 ALPHAT(5) = .080

PHI	X/LT .977	1.000
.000	-.1650	-.0620
90.000	-.1820	
180.000	-.1450	

MACH (1) = .600 ALPHAT(6) = 2.070

PHI	X/LT .977	1.000
.000	-.1360	-.0540
90.000	-.1600	
180.000	-.1330	

MACH (1) = .600 ALPHAT(7) = 4.010

PHI	X/LT .977	1.000
.000	-.0980	-.0340
90.000	-.1350	
180.000	-.1660	

AMES 11-707 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RUN44)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (1) = .398 ALPHAT(8) = 8.040

	X/LT .977	1.000
PHI		
.000	-.0510	-.0190
90.000	-.1280	
180.000	-.1530	

MACH (1) = .399 ALPHAT(9) = 8.080

	X/LT .977	1.000
PHI		
.000	-.0640	-.0120
90.000	-.1390	
180.000	-.1410	

MACH (2) = .901 ALPHAT(1) = -8.070

	X/LT .977	1.000
PHI		
.000	-.3170	-.2300
90.000	-.2260	
180.000	-.2200	

MACH (2) = .901 ALPHAT(2) = -6.050

	X/LT .977	1.000
PHI		
.000	-.3170	-.1830
90.000	-.2100	
180.000	-.1950	

MACH (2) = .899 ALPHAT(3) = -4.020

	X/LT .977	1.000
PHI		
.000	-.2740	-.1330
90.000	-.1930	
180.000	-.1780	

MACH (2) = .900 ALPHAT(4) = -1.990

	X/LT .977	1.000
PHI		
.000	-.2160	-.1170
90.000	-.1920	
180.000	-.1820	

MACH (2) = .902 ALPHAT(5) = .010

	X/LT .977	1.000
PHI		
.000	-.1590	-.1110
90.000	-.2000	
180.000	-.1850	

MACH (2) = .902 ALPHAT(6) = 1.990

	X/LT .977	1.000
PHI		
.000	-.1290	-.0980
90.000	-.1780	
180.000	-.1780	

AMES 11-707 IA9 OEA + 83 + 79 EXTERNAL TANK BASE (RDMY44)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (2) = .901 ALPHAT(7) = 4.010

X/LT	.977	1.000
PHI		
.000	-.1030	-.0880
90.000	-.1620	
180.000	-.1670	

MACH (2) = .904 ALPHAT(8) = 6.000

X/LT	.977	1.000
PHI		
.000	-.0900	-.0720
90.000	-.1620	
180.000	-.1630	

MACH (2) = .898 ALPHAT(9) = 7.980

X/LT	.977	1.000
PHI		
.000	-.0890	-.0890
90.000	-.1540	
180.000	-.1650	

MACH (3) = 1.103 ALPHAT(1) = -8.010

X/LT	.977	1.000
PHI		
.000	-.3260	-.2650
90.000	-.2940	
180.000	-.2750	

MACH (3) = 1.087 ALPHAT(2) = -5.950

X/LT	.977	1.000
PHI		
.000	-.3000	-.2260
90.000	-.2560	
180.000	-.2350	

MACH (3) = 1.100 ALPHAT(3) = -3.970

X/LT	.977	1.000
PHI		
.000	-.2540	-.1990
90.000	-.2490	
180.000	-.2380	

MACH (3) = 1.102 ALPHAT(4) = -1.990

X/LT	.977	1.000
PHI		
.000	-.2300	-.1790
90.000	-.2250	
180.000	-.2020	

MACH (3) = 1.100 ALPHAT(5) = .030

X/LT	.977	1.000
PHI		
.000	-.1940	-.1490
90.000	-.1950	
180.000	-.1860	

AMES 11-70? IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY44)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (3) = 1.101 ALPHAT(6) = 2.040

	X/LT .977	1.000
PHI		
.000	-.1370	-.0990
90.000	-.1780	
180.000	-.1700	

MACH (3) = 1.102 ALPHAT(7) = 3.960

	X/LT .977	1.000
PHI		
.000	-.0980	-.0730
90.000	-.1600	
180.000	-.1410	

MACH (3) = 1.105 ALPHAT(8) = 6.030

	X/LT .977	1.000
PHI		
.000	-.0570	-.0770
90.000	-.1440	
180.000	-.1190	

MACH (3) = 1.102 ALPHAT(9) = 8.010

	X/LT .977	1.000
PHI		
.000	-.0480	-.0740
90.000	-.1330	
180.000	-.1060	

MACH (4) = 1.247 ALPHAT(1) = -8.060

	X/LT .977	1.000
PHI		
.000	-.3010	-.2460
90.000	-.2840	
180.000	-.2480	

MACH (4) = 1.250 ALPHAT(2) = -5.980

	X/LT .977	1.000
PHI		
.000	-.2740	-.2240
90.000	-.2570	
180.000	-.2260	

MACH (4) = 1.247 ALPHAT(3) = -3.960

	X/LT .977	1.000
PHI		
.000	-.2460	-.2050
90.000	-.2360	
180.000	-.2150	

MACH (4) = 1.248 ALPHAT(4) = -2.000

	X/LT .977	1.000
PHI		
.000	-.2150	-.1840
90.000	-.2250	
180.000	-.2000	

AMES 11-7?7 IA9 OEA + S3 + T9 EXTERNAL TANK BASE (RBNY44)

SECTION (1)EXTERNAL TANK BASE DEPENDENT VARIABLE CP

MACH (4) = 1.249 ALPHAT(5) = .020

	X/LT .977	1.000
PHI		
.000	-.1930	-.1590
90.000	-.2100	
180.000	-.1900	

MACH (4) = 1.244 ALPHAT(6) = 2.070

	X/LT .977	1.000
PHI		
.000	-.1510	-.1300
90.000	-.1960	
180.000	-.1750	

MACH (4) = 1.248 ALPHAT(7) = 4.020

	X/LT .977	1.000
PHI		
.000	-.1190	-.1040
90.000	-.1670	
180.000	-.1560	

MACH (4) = 1.246 ALPHAT(8) = 6.090

	X/LT .977	1.000
PHI		
.000	-.0880	-.0950
90.000	-.1470	
180.000	-.1320	

MACH (4) = 1.246 ALPHAT(9) = 8.010

	X/LT .977	1.000
PHI		
.000	-.0720	-.0880
90.000	-.1270	
180.000	-.1050	